

HOPSON'S *Tinners* *Guide*



FEBRUARY 9, 1920

**W.C. HOPSON CO.
GRAND RAPIDS, MICH.**

WE MANUFACTURE

STEEL CEILLINGS

SEND FOR OUR CATALOG

ORIGINAL DESIGNS

NEW DIES

W. C. Hopson Co.

*✓ of On all
Articles in this book*
MANUFACTURERS OF

High Grade Roofing Plates, Furnace
Pipe Coke Tin Plates, Galvanized
Open Hearth Sheets, Galvanized
and Painted Roofing Products,
Galvanized Eaves Trough, Con-
ductor Pipe, Ridge Roll, O. G. Box
and Roof Gutters, and Accessories
For Same. :: :: :: ::

ARTICLES SPECIAL ATTENTION RIDGEND FINIALS

SEE PAGE 10

NESTED FURNACE PIPE
NESTED STOVE PIPE
RIBBED GALV. VALLEY

KEEP THIS GUIDE IN YOUR POCKET
AND YOU WILL ALWAYS BE POSTED

GRAND RAPIDS, MICHIGAN

GALVANIZED EAVES TROUGH

Lap Joint, Single Bead.



Slip Joint, Single Bead.

Actual freight only allowed on lots of 500 feet or more.

PRICES PER 100 LINEAL FEET**STANDARD GAUGE—LAP JOINT**

	Central Territory	Single Bead
3½ inch		\$ 9.80
4 inch		11.20
4½ inch		12.60
5 inch		13.30
6 inch		16.10
7 inch		18.90
8 inch		21.70

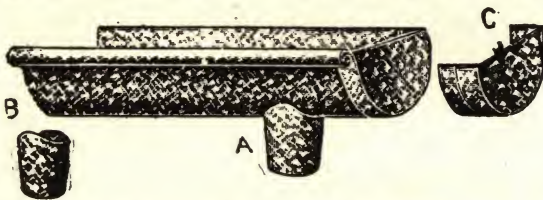
STANDARD GAUGE—SLIP JOINT

	Central Territory	Single Bead	Double Bead
3½ inch		\$10.50	\$14.00
4 inch		11.90	15.40
4½ inch		13.30	16.80
5 inch		14.00	17.50
6 inch		17.50	21.00
7 inch		20.30	23.80
8 inch		23.10	26.60

Prices on Copper Eavestrough quoted on application.

A charge made for crating, at cost, when shipped in less than crate lots.

No freight allowance on shipments in less than 500 ft. lots.

EAVES TROUGH ENDS AND DROPS**Eaves Trough Ends and Outlets.**

A Represents a 12 inch section of trough with Drop (B) soldered on, and the end closed with our Slip Joint End Cap (C).

B Represents an Outlet.

C Represents our Slip Joint End Cap, which requires no soldering and may be used right or left hand.

PER DOZEN.

Sizes, inches	2	3	3½	4	4½	5	6	7	8
A 12 inch End Complete			6.08	6.72	7.36	7.36	8.80	10.08	11.20
C Slip Joint End Cap only			2.08	2.40	2.56	2.56	3.04	3.68	4.48
B Outlet only	1.28	1.60		1.92		2.08	2.56		

We furnish End Sections Complete as follows 3½ and 4 inch with 2 inch outlets, 5 inch with 3 inch outlet and 6 inch with 4 inch outlet.

For double bead end pieces add 60 cents per dozen to above list.

MITRES—Single Bead



Outside Corner Mitre

Inside Corner Mitre

These Mitres are made complete, ready for use, for both Inside and Outside Bead, either Slip or Lap Joint.

Galvanized Iron.

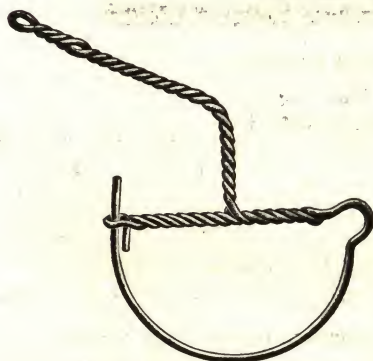
Size	Slip Joint	Lap Joint
3½ inch	\$ 5.95 per dozen	\$ 4.56 per dozen
4 inch	6.30 per dozen	4.90 per dozen
4½ inch	7.00 per dozen	5.60 per dozen
5 inch	7.00 per dozen	5.60 per dozen
6 inch	8.40 per dozen	7.00 per dozen
7 inch	10.50 per dozen	9.10 per dozen
8 inch	12.60 per dozen	11.20 per dozen

When ordering Slip Joint Mitres, state whether right or left hand is wanted and whether for "Inside" or "Outside" Corner; otherwise half rights and half lefts, and half "Inside" and half "Outside" Corner Mitres will be supplied.

NOTE—For Double Bead Mitres, add \$1.40 per dozen to above list.

WIRE EAVES TROUGH HANGERS

TRIPLE TWIST

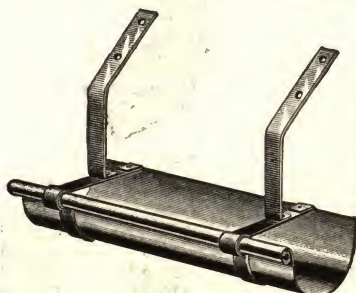


Note the third cross wire which projects downward.

Per Gross.

Size	Single Bead	Double Bead
3½ inch.....	\$6.00	\$6.50
4 inch.....	6.00	6.50
4½ inch.....	6.60	7.10
5 inch.....	6.60	7.10
6 inch.....	7.70	8.20
7 inch.....	8.80	9.30
8 inch.....	9.90	10.40

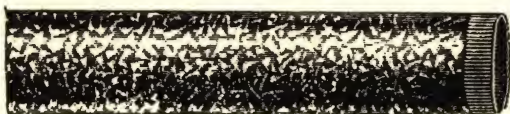
BAKER'S IMPROVED EAVES TROUGH HANGERS



Size	Single and Double Bead
3½ inch, per gross.....	\$ 9.00
4 inch, per gross.....	9.00
4½ & 5 inch, per gross..	9.00
6 & 7 inch, per gross.....	12.50
8 inch, per gross.....	12.50
Bakers' Pliers .....	.50

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

GALVANIZED CONDUCTOR PIPE



Plain Round.



Corrugated Round.

Our pipe all made in full 10 foot lengths.

Actual freight only allowed on lots of 500 feet or more.

Prices per 100 lineal feet.

STANDARD GAUGE

	Nested	Not nested
2 inch	\$11.70	\$12.30
3 inch	13.50	14.20
4 inch	18.00	19.00
5 inch	22.50	23.70
6 inch	27.00	28.40



STANDARD SQUARE

Full 10 foot lengths.

STANDARD GAUGE

	Nested	Not Nested
2 inch, $1\frac{1}{4} \times 2\frac{1}{4}$	\$13.50	\$14.20
3 inch, $2\frac{3}{8} \times 3\frac{1}{4}$	15.30	16.00
4 inch, $2\frac{3}{4} \times 4\frac{1}{4}$	19.80	20.80
5 inch, $3\frac{3}{4} \times 5$	24.30	25.50

Prices on Copper Conductor Pipe quoted on application.

A charge made for crating, at cost, when shipped in less than crate lots.

No Freight allowed on shipments of less than 500 feet.

GALVANIZED SQUARE CORRUGATED ELBOWS



Style A



Style B

	Price per 100 Elbows	Shoes
2 inch, $1\frac{3}{4} \times 2\frac{1}{4}$	\$44.00	\$55.00
3 inch, $2\frac{3}{8} \times 3\frac{1}{4}$	55.00	66.00
4 inch, $2\frac{3}{4} \times 4\frac{1}{4}$	71.50	88.00
5 inch, $3\frac{3}{4} \times 5$	110.00	137.50

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CONDUCTOR PIPE ELBOWS



No. 0
Angle 30 degrees



No. 1
Angle 45 degrees



No. 2
Angle 60 degrees



No. 3
Angle 75 degrees



No. 4
Angle 90 degrees



Shoe
Angle 75 degrees

CORRUGATED ROUND

		Price per 100	
		Elbows	Shoes
2 inch	.....	\$24.00	\$32.00
3 inch	.....	28.80	38.40
4 inch	.....	48.00	60.00
5 inch	.....	100.00	120.00
6 inch	.....	120.00	144.00



No. 0
Angle 30 degrees



No. 1
Angle 45 degrees



No. 2
Angle 60 degrees



No. 3
Angle 75 degrees



No. 4
Angle 90 degrees



Shoe
Angle 75 degrees

PLAIN ROUND

		Price per 100	
		Elbows	Shoes
2 inch	.....	\$24.00	\$32.00
3 inch	.....	28.80	38.40
3 inch	.....	48.00	60.00
5 inch	.....	100.00	120.00
6 inch	.....	120.00	144.00

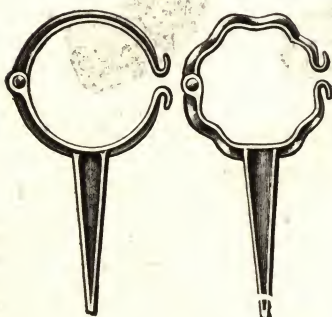
ALWAYS SPECIFY ANGLE BY NUMBER

HOOKS FOR ROUND CORRUGATED OR PLAIN ROUND CONDUCTOR PIPE



WROUGHT CONDUCTOR HOOKS Galvanized

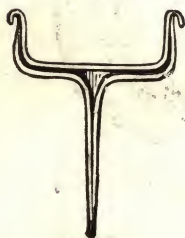
Size		For Brick
2½ inch,	per 100	\$ 9.00
3 inch,	per 100	11.00
4 inch,	per 100	17.00
5 inch,	per 100	24.00
6 inch,	per 100	30.00



HINGED CONDUCTOR HOOKS—Galvanized

For Round, Corrugated and
Plain Round Conductor

Size		For Brick
2 inch,	per 100	\$10.50
3 inch,	per 100	13.50
4 inch,	per 100	19.50
5 inch,	per 100	24.00
6 inch,	per 100	31.50



SQUARE CONDUCTOR HOOKS —Tinned.

Size		For Brick
2 inch,	per 100	\$ 7.50
3 inch,	per 100	10.50
4 inch,	per 100	12.00
5 inch,	per 100	13.50



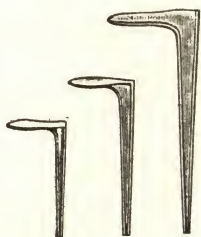
PERFECTION CONDUCTOR HANGERS

Made of Galvanized Wire. The Hanger can be tightened by giving the eye a twist. For two inch corrugated pipe 2½-inch hanger is required. Other sizes run uniform.

Size

For Wood
or Brick

2½ inch for 2 inch corrugated,	gauge wire 12, per 100	\$4.00
3 inch,	gauge wire 11, per 100	4.50
4 inch,	gauge wire 10, per 100	5.00

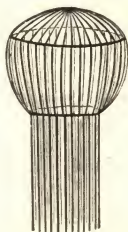


FLASHING HOOKS—Tinned

Size	
1½ inch, per 100	\$2.00
2½ inch, per 100	2.50
3½ inch, per 100	4.00
5½ inch, per 100	7.00

GALVANIZED WIRE CONDUCTOR STRAINERS

Size	Per Dozen
2 inch	\$1.80
3 inch	2.40
4 inch	3.60
5 inch	4.20
6 inch	4.80



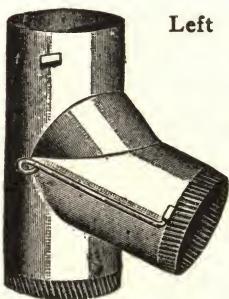
KORREKT RAIN WATER CUT-OFFS

Self-Locking, Durable, Simple

Size Pipe, inches	3 in.	4 in.
Galvanized	\$8.80	\$12.10

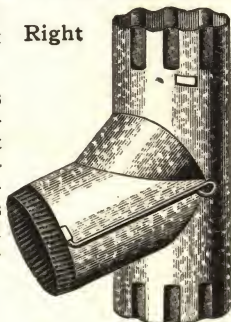
CUT-OFFS

Centennial Rain Water Cut-Offs



Left

Can be used in any position without extra pipe.



Right

Put up in crates one dozen each (assorted right and left hand). When ordering Galvanized Centennial Cut-Offs specify if for plain or Corrugated Conductor.

A

B

Size Pipe, inches	2	3	4	5	6
Galvanized, per doz	\$9.00	\$9.50	\$12.50	\$22.00	\$26.00

Young's Cut-Off

CUT-OFFS

GALVANIZED.

Price Per Dozen.

	3"	4"
Young's	\$18.00	20.00



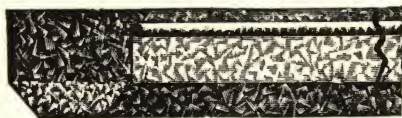
Young's Strainer

O. G. AND BOX GUTTERS

Be Sure to State Style of Gutter Wanted

Made in 10 Foot Lengths. Galvanized Steel.

On orders less than 100 feet add.....\$1.00 per 100 feet



STYLE C GUTTER

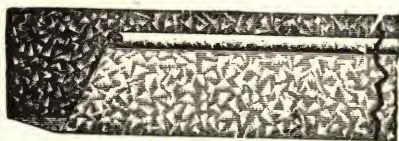
Bead $\frac{5}{8}$ " unless otherwise ordered.

Special Galvanized Hangers, each.....8c

Mitres, each, 5"-70c; 6"-80c; 7"-90c; 8"\$1.10.

Prices Per 100 Feet.

Size, inches	5	6	7	8
Depth, inches	3½	4¼	4¾	5½
Girt, inches	12	14	16	20
Standard Gauge	\$19.96	\$23.28	\$24.60	\$33.26
No. 26 Gauge	23.94	27.28	34.50	41.24



STYLE D GUTTER

Bead $\frac{5}{8}$ " unless otherwise ordered.

Special Galvanized Hangers, each.....8c

Mitres, each, 5"-70c; 6"-80c; 7"-\$1.00; 8"-\$1.10; 9"-\$1.30.

Prices Per 100 Feet.

Size, inches,	5	6	7	8	9
Depth, inches,	3½	4½	5½	6¾	8
Girt, inches,	12	15	18	21	24
Standard Gauge	\$19.96	\$24.60	\$29.94	\$36.18	\$39.90
No. 26 Gauge	23.94	28.60	37.90	44.56	47.88



STYLE E GUTTER

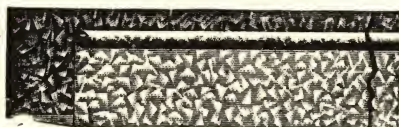
Bead $\frac{5}{8}$ " unless otherwise ordered.

Special Galvanized Hangers, each.....8c

Mitres, each, 5"-70c; 6"-90c; 7"-\$1.00; 8"-\$1.10; 9"-\$1.30.

Prices Per 100 Feet.

Size, inches	5	6	7	8	9
Depth, inches	3½	4½	5½	6½	7½
Girt, inches	12	15	18	21	24
Standard Gauge	\$19.96	\$24.60	\$29.94	\$36.58	\$39.90
No. 26 Gauge	23.94	28.60	37.90	44.56	47.88



STYLE F GUTTER

Bead $\frac{5}{8}$ " unless otherwise ordered.

Special Galvanized Hangers, each.....8c

Mitres, each, 4"-90c; 5"-90c; 6"-\$1.00; 7"-\$1.10; 8"-\$1.20.

Prices Per 100 Feet.

Size, inches	4	5	6	7	8
Depth, inches	3½	4½	5½	6½	7½
Girt, inches	12	15	18	21	24
Standard Gauge	\$19.96	\$24.60	\$29.94	\$36.58	\$39.90
No. 26 Gauge	23.94	28.60	37.90	44.56	47.88

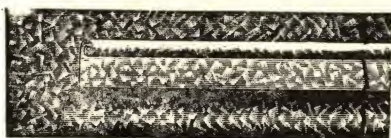
On orders less than 100 feet add.....\$1.00 per 100 feet

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

O. G. AND BOX GUTTERS

Be Sure to State Style of Gutter Wanted

On orders less than 100 feet add.....\$1.00 per 100 feet
Made in 10 Foot Lengths.



STYLE G GUTTER

Bead $\frac{5}{8}$ " unless otherwise ordered.

Special Galvanized Hangers, each.....8c
Mitres, each, $3\frac{1}{2}$ "-80c;
4"-80c; 5"-90c; 6"-\$1;
7"-\$1.10; 8"-\$1.20.

Prices Per 100 Feet.

Size, inches	$3\frac{1}{2}$	4	5	6	7	8
Depth, inches	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{3}{4}$	6
Girt, inches	10	12	15	18	20	22
Standard Gauge	\$16.64	\$19.96	\$24.60	\$29.94	\$33.26	\$36.58
No. 26 Gauge	20.62	23.94	28.60	37.90	41.24	44.56



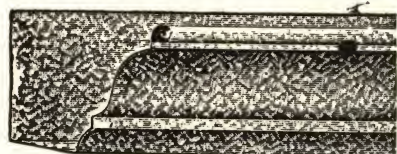
STYLE H GUTTERS

$\frac{5}{8}$ " Bead unless otherwise ordered.

Special Galvanized Hangers, each8c
Mitres, each, 5"-90c; 6"-\$1.00; 7"-\$1.10; 8"-\$1.20;
9"-\$1.30.

Price Per 100 Feet.

Size, inches	5	6	7	8	9
Depth, inches	4	5	6	7	8
Girt, inches	12	15	18	21	24
Standard Gauge	\$19.96	\$24.60	\$29.94	\$36.58	\$39.90
No. 26 Gauge	23.94	28.60	37.90	44.56	47.88



STYLE J GUTTERS

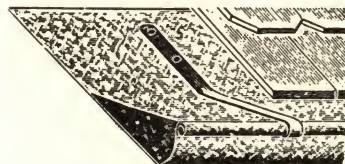
$\frac{5}{8}$ " Bead unless otherwise ordered.

Special Galvanized Hangers, each8c
Mitres, each, $3\frac{1}{2}$ "-80c; 4"-90c; 5"-90c; 6"-\$1.00; 7"-\$1.20; 8"-\$1.30.

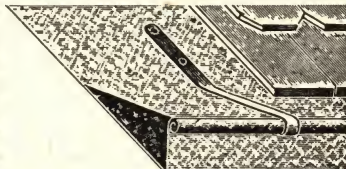
Price Per 100 Feet.

Size, inches ..	$3\frac{1}{2}$	4	5	6	7	8
Depth, inches	3	$3\frac{3}{4}$	$4\frac{3}{4}$	$5\frac{3}{4}$	$6\frac{1}{2}$	$7\frac{1}{2}$
Girth, inches	10	14	16	18	20	24
Standard Gauge	\$19.96	\$27.94	\$31.92	\$35.92	\$39.90	\$47.88
No. 26 Gauge	23.94	34.94	39.90	43.90	47.88	55.86

Heavier Gauges and Copper Gutters quoted on application.
No freight allowance on shipments of less than 500 feet.



Style A



Style B

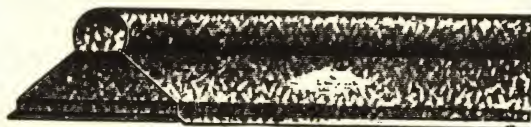
Price Per 100 Feet

Girth, inches	12	14	15	20	24
Standard Gauge	\$19.96	\$23.28	24.60	\$33.26	\$39.90
No. 26 Gauge	23.94	27.28	28.60	41.24	47.88

Heavier Gauges and Copper Gutters quoted on application.
No freight allowance on less than 500 feet.

On orders less than 100 feet add \$1.00 per 100 feet.

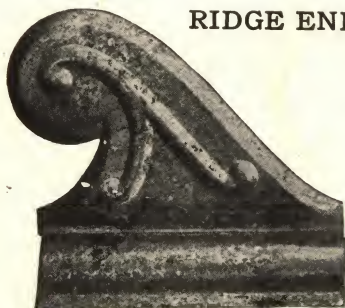
RIDGE ROLL



Made With Nailing Flange
Made in 10 Foot Lengths

Roll, inches	1¼	1½	2
Apron, inches	1½	2	2½
Girt, inches	7	8	10
Galvanized, per 100 feet.....	\$ 8.86	\$10.12	\$12.00

RIDGE END FINIALS

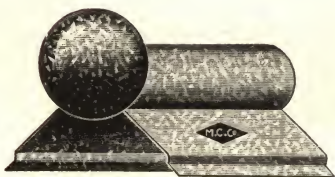


The New End Finish.

Every dealer can sell them.
Packed one dozen in carton.

Size	Dozen
To fit 1¼ in. ridge roll	\$5.00
To fit 1½ in. ridge roll....	5.00
To fit 2 in. ridge roll.....	5.00

GLOBE FINIAL



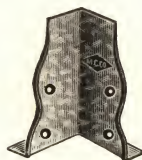
Per doz.

For 1¼ inch Ridge Roll..	\$5.00
For 1½ inch Ridge Roll	5.00
For 2 inch Ridge Roll....	6.00

METAL BUILDING CORNERS



Outside Corner



Inside Corner

Furnished with Beaded Edges

Net Prices per 1000 Galvanized

No. 4—3½ inches long, weather board laid 3 inches to weather	\$28.80
No. 6—4½ inches long, weather board laid 4 inches to weather	31.20
No. 8—5½ inches long, weather board laid 5 inches to weather	33.60

METAL LATH AND CORNER BEAD



Expanded Cup Metal Lath.

Put up in Bundles containing 15 Sheets. Each sheet 18 x 96 inches.

No. 27, painted, per sq. yd.....\$0.60

Diamond Expanded Metal Lath.

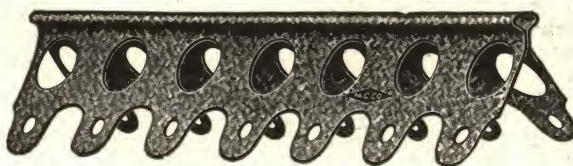
Put up in bundles containing 15 sheets. Each sheet 24 x 96 inches.

No. 27 gauge painted, per sq. yd.....\$0.60

No. 24 gauge painted, per sq. yd..... .70

Quantity Price upon Application.

STEEL CORNER BEADS



Outside



Inside

Steel Corner Bead—9 Foot Lengths

Per Foot, Outside.....\$0.07

Per Foot, Inside08

Special prices on large quantities.

WALL TIES



Per Thousand, Punched\$5.50

Per Thousand, Not Punched 5.00

Packed 1,000 in Carton.

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.



TIN SHINGLES OR FLASHING

Made of our Roofing Tin cut to size. Put up in packages of 100 pieces each. We carry the following sizes in stock so that all demands may be promptly met.

	Per 100	Per 1,000
5x7 inches, tin	\$3.00	\$28.00
4x9 inches, tin	3.20	30.00
5x7 inches, galvanized	4.00	38.00
4x9 inches, galvanized	4.00	38.00



ORNAMENTAL HIP SHINGLES

Durable, Storm Proof, Easily Applied

Size, Inches	Tin Painted	Galv. Iron
4x8 per hundred	\$ 3.50	\$ 5.50
4x8 per thousand	33.00	53.00

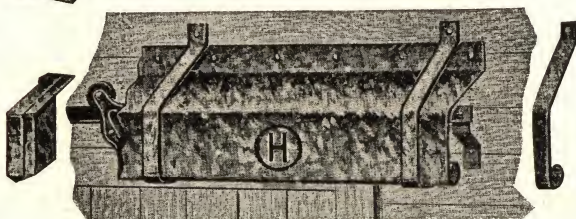
CONTINUOUS HIP SHINGLE

A great time saver and more ornamental than shingle tins or common Hip Shingles.

Made in 5 Foot Lengths.	
Shingle in full crate	
lots, per foot.....	\$7.00
Shingle in less than	
crate lots, per foot.....	\$8.00
Starters, per dozen.....	.60



We can also furnish continuous Hip Shingle in 10 ft. lengths if specified in order.



BARN DOOR TRACK COVER

	Price Per 100 feet.	10"	14"
Standard Gauge	\$16.64		\$23.28
No. 26 Gauge	20.62		27.28
Hangars 10c each		Ends 30c each.	

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

In
100
Feet
Rolls



For
Roofing
Gutters
or
Valleys

Price Per Roll of 100 Lineal Feet.

	10"	14"	20"	28" wide
IC Coin Tin Valley.....	\$10.50	\$14.50	21.00	\$29.00
IC Thrift Old Style.....	12.00	17.00	24.00	34.00
IC Bismark Old Style.....	16.00	20.00	28.00	36.00
IC Superior Old Style.....	19.00	24.00	33.00	41.00
Add for painting on one side.....	.50	.50	.70	1.00
Add for painting two sides.....	1.00	1.00	1.40	2.00

Add 25 per cent to price of IC Valley for IX Valley.

GALVANIZED VALLEY

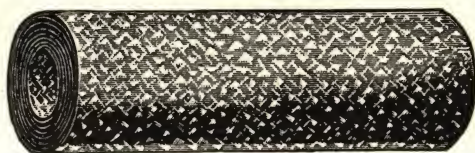


Fig. 1. Galvanized Roll Valley, 100 lineal feet per roll. See bottom of page for prices.

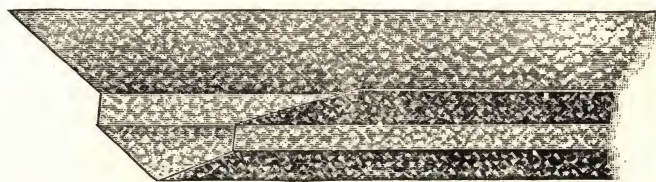


Fig. 2. Galvanized Formed Valley, 10 foot lengths. See bottom of page for price.

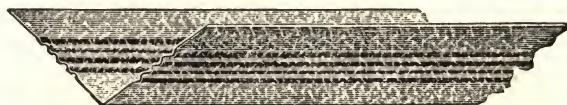


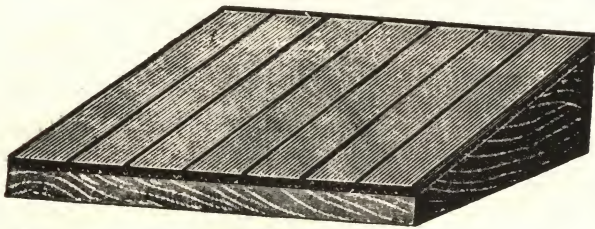
Fig. 3. Galvanized Ribbed Valley, 10 foot lengths. See bottom of page for prices.

Prices for all Styles Figs, 1, 2 and 3

Width, inches	10	14	20
No. 28 Galvanized, per 100 lineal feet.....	\$12.00	\$17.00	\$24.00

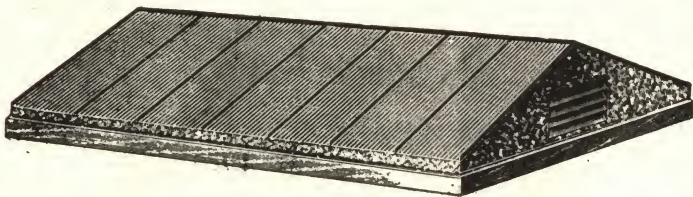
All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

GALVANIZED STEEL SKYLIGHTS



No. 1, Single Pitch Skylight. With 3-16 Skylight Glass.
Wood curb not furnished. For Flat Roof.

Size		Size		Size	
3x 3 feet.....	\$16.00	4x 5 feet.....	\$28.00	6x 8 feet.....	\$56.00
3x 4 feet.....	20.00	4x 6 feet.....	33.00	6x10 feet.....	72.00
3x 5 feet.....	22.00	4x 8 feet.....	40.00	6x12 feet.....	80.00
3x 6 feet.....	24.00	5x 8 feet.....	50.00	8x10 feet.....	85.00
4x 4 feet.....	23.00	5x10 feet.....	60.00	8x12 feet.....	100.00



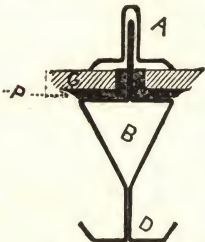
No. 3, Double Pitch Skylight with Adjustable Ventilators.
With 3-16 inch Skylight Glass. Wood Curb not furnished.

Size		Size		Size	
3x 3 feet.....	\$33.00	5x 8 feet.....	\$75.00	6x12 feet.....	\$120.00
3x 6 feet.....	36.00	5x10 feet.....	90.00	8x10 feet.....	127.60
4x 6 feet.....	49.60	6x 8 feet.....	84.00	8x12 feet.....	150.00
4x 8 feet.....	60.00	6x10 feet.....	108.00	10x14 feet.....	180.00

No. 2, Double Pitch Skylight. With 3-16 Skylight Glass. Wood curb not furnished. Same as No. 3 with exception that it does not have Ventilators.

Size		Size		Size	
3x 3 feet.....	\$20.00	4x 8 feet.....	\$57.00	6x12 feet.....	\$117.00
3x 4 feet.....	26.00	5x 8 feet.....	72.00	8x10 feet.....	124.00
3x 5 feet.....	31.00	5x10 feet.....	87.00	8x12 feet.....	146.00
3x 6 feet.....	34.00	6x 8 feet.....	81.00	8x14 feet.....	175.00
4x 6 feet.....	47.00	6x10 feet.....	105.00		

Our skylights are guaranteed to be of the best material and workmanship, and to be absolutely snow and water tight, all condensation being provided for and possibility of breakage of glass reduced to a minimum, as expansion and contraction of metal frame is allowed for and guarded against. We recommend bedding all glass in good quality of putty.

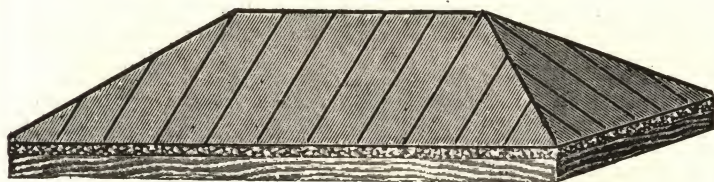


This Illustration Shows Detail of the Construction of Our Metal Skylights

A—Represents the Cap. B—Sash Bar.
D—Condensation Gutter.
G—Glass. P—Putty.

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GALVANIZED STEEL SKYLIGHTS

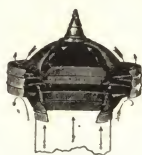


No. 6. Hipped Skylight without Ventilators. With 3-16 inch Skylight Glass. Wood Curb not furnished.

Size		Size		Size	
3x3 feet.....	\$22.00	4x 6 feet.....	\$48.00	6x10 feet.....	\$106.00
3x5 feet.....	30.00	4x 8 feet.....	57.00	6x12 feet.....	112.00
3x6 feet.....	34.00	5x 8 feet.....	68.00	8x10 feet.....	136.00
4x4 feet.....	30.00	5x10 feet.....	86.00	8x12 feet.....	144.00
4x5 feet.....	40.00	6x 8 feet.....	82.00	10x14 feet.....	176.00

If Ventilators are Desired Add the Following Prices to Above Lists for Each Ventilator

SKYLIGHT VENTILATORS



6"	8"	10"	12"	14"	16"	18"	20"	24"
\$6.00	\$6.80	\$7.80	\$9.00	\$12.00	\$16.00	\$21.50	\$26.00	\$28.00

The above prices include Ventilator with proper Base attached to Skylight Frame.

CRATING CHARGES FOR SKYLIGHTS

Size	No. 1	2 & 3	No. 6	Size	No. 1	2 & 3	No. 6
3x3	2.80	3.10	3.80	6x8	5.80	6.80	7.40
3x4	3.10	3.50	4.40	6x10	6.40	7.10	7.80
3x5	3.50	3.90	4.50	6x12	6.80	7.50	8.00
3x6	3.80	4.10	4.60	6x14	7.20	7.90	8.40
4x4	3.90	4.40	4.90	7x7	5.60	6.40	6.90
4x6	4.60	5.60	6.10	8x8	6.50	7.50	7.90
4x8	5.00	5.90	6.50	8x12	7.50	8.30	8.80
5x5	5.40	5.80	6.40	8x14	9.40	10.00	10.60
5x8	5.60	6.00	6.50	9x9	6.90	7.80	8.30
5x10	5.80	6.40	6.90	10x10	8.00	8.80	9.40
6x6	5.40	6.10	6.80				

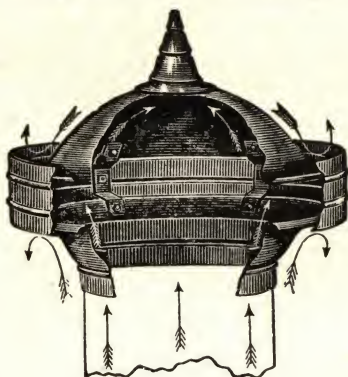
F. O. B. Grand Rapids, Mich.

The above charges are for shipments of one skylight only. On shipment of two skylights deduct 25 per cent per skylight, and on shipment of three skylights or more deduct 33 1-3 per cent. Show this charge on all orders for skylights.

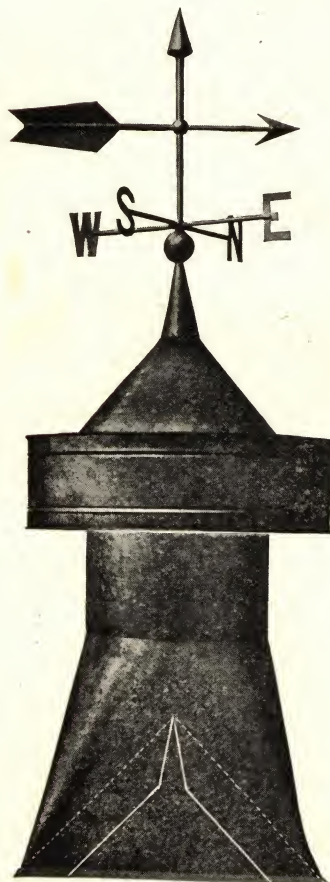
GLOBE VENTILATORS

Globe Ventilators and Chimney Caps

For ventilating Schools, Churches, Hospitals, Halls, Factories, etc., or for increasing draft in sluggish flues.



Size	Each
3 inch	\$ 1.80
4 inch	2.10
6 inch	\$ 4.00
7 inch	4.50
8 inch	4.80
9 inch	5.00
10 inch	5.80
12 inch	6.80
14 inch	10.40
16 inch	14.00
18 inch	19.00
20 inch	23.00
24 inch	28.00
30 inch	45.50
36 inch	84.00
40 inch	126.00
48 inch	148.00
60 inch	252.00
72 inch	336.00



VENT-RITE CUPOLA

For removing moisture, foul air, gas, etc., from warehouses, barns, and other buildings.

These cupolas are screened making them bird proof.

A weathervane is furnished with all cupolas, but the cardinal points are extra.

Price

No. 1	Each	\$50.00
No. 2	Each	57.50
No. 3	Each	68.00
No. 4	Each	90.00

Dimensions

No.	Size Flue	Size Base	Height
1	20	30" x 30"	9' 0"
2	24	36" x 36"	10' 0"
3	30	42" x 42"	11' 6"
4	36	48" x 48"	12' 6"

Cardinal points are not included in above prices. If they are desired add \$3.00 to above lists.

Dotted line indicates pitch of roof.

Clear white line indicates method of cutting to obtain roof flashing.

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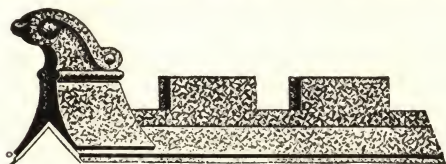
GALVANIZED STEEL CRESTINGS

When Ordering State Pitch of Roof

**STYLE F**

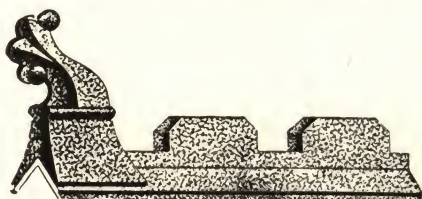
Cresting — Height,
7 inches; Width
of Apron 3 inch;
per foot.....\$.90

Galvanized Finial, height, 10½ inches; each..... 4.00

**STYLE G**

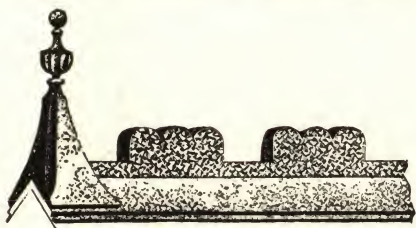
Cresting — Height,
11 inches; Width
of Apron 6 inches;
per foot.....\$1.20

Galvanized Finial, 18 inches high; each ..6.00

**STYLE H**

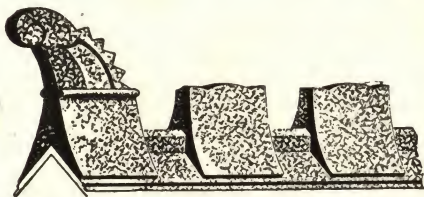
Cresting — Height,
11 inches; Width
of Apron 6 inches;
per foot \$1.32

Galvanized Finials, 22 inches high; each..... 6.00

**STYLE I**

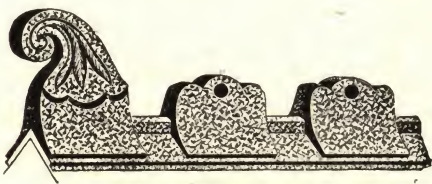
Cresting — Height,
11 inches; Width
of Apron 6 inches;
per foot \$1.44

Galvanized Finial, 25 inches high; each.....\$7.20

**STYLE J**

Cresting — Height,
10 inches; Width
of Apron 6 inches;
per foot \$1.80

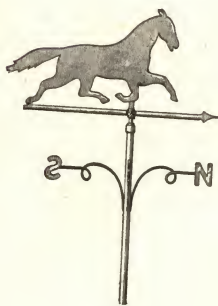
Galvanized Finial, 16 inches high; each..... 6.00

**STYLE K**

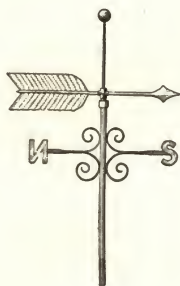
Cresting — Height,
11 inches; Width
of Apron 6 inches;
per foot.....\$2.10

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

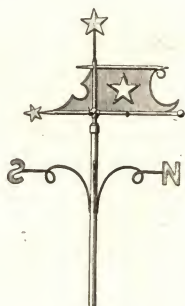
FINIALS AND WEATHER VANES



11



12



13



15



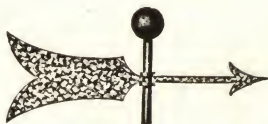
16



17



211



19

No. 11	Height 4 feet 6 inches	Painted	Each.....	\$15.40
No. 12	Height 4 feet 6 inches	Painted	Each.....	18.00
No. 13	Height 5 feet 0 inches	Painted	Each.....	21.60
No. 15	Height 7 feet 0 inches	Painted	Each.....	26.40
No. 16	Height 6 feet 6 inches	Painted	Each.....	31.20
No. 17	Height 5 feet 0 inches	Painted	Each.....	36.00
No. 19	Height 5 feet 0 inches	Painted	Each.....	9.60
No. 211	Raised Horse with same base as			
No. 11	Finial.....	Each.....		26.40
No. 211	Raised Horse with same base as			
No. 16	Finial	Each.....		33.60

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

TOWER ORNAMENTS



107



109



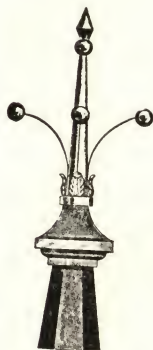
110



111



108



112



113



114



115



8



10



24



32

No. 8	Height 30 inches	Round Base	Each.....	\$15.60
		Square Base	Each.....	13.20
No. 10	Height 32 inches	Round Base	Each.....	16.80
		Square Base	Each.....	14.40
No. 24	Height 48 inches	Round Base	Each.....	16.80
		Square Base	Each.....	14.40
No. 32	Height 48 inches	Round Base	Each.....	43.20
	Height 80 inches	Round Base	Each.....	52.80
No. 107	Height 48 inches	Round Base	Each.....	19.20
	Height 48 inches	Square Base	Each.....	16.80
No. 108	Height 36 inches	Round Base	Each.....	18.00
		Square Base	Each.....	15.60
No. 109	Height 42 inches	Round Base	Each.....	16.80
		Square Base	Each.....	14.40
No. 110	Height 48 inches	Round Base	Each.....	21.60
		Square Base	Each.....	19.20
No. 111	Height 54 inches	Octagon Base	Each.....	31.20
No. 112	Height 54 inches	Octagon Base	Each.....	28.80
No. 113	Height 60 inches	Square Base	Each.....	26.40
No. 114	Height 69 inches	Square Base	Each.....	52.80
No. 115	Height 80 inches	Square Base	Each.....	43.20

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

TOWER ORNAMENTS



116



25



26



28



30



31



106



104



102



20



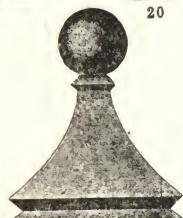
21



103



23

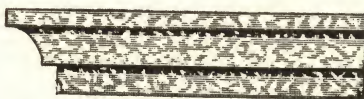


105

No. 20	Size 6x6x15 inches	Each	\$ 3.60
	Size 6x6x20 inches	Each	4.80
No. 21	Size 14x14x18 inches	Each	9.60
	Size 20x20x24 inches	Each	12.00
No. 23	Size 15 inches high	Each	8.40
	Size 20 inches high	Each	10.80
No. 25	Height 72 inches	Round Base	Each 28.80
	Height 72 inches	Square Base	Each 26.40
No. 26	Height 54 inches	Round Base	Each 18.00
	Height 54 inches	Square Base	Each 15.60
No. 28	Height 60 inches	Round Base	Each 22.80
	Height 60 inches	Square Base	Each 20.40
No. 30	Height 60 inches	Octagon Base	Each 48.00
No. 31	Height 50 inches	Round Base	Each 60.00
No. 102	Height 24 inches	Octagon Base	Each 13.20
	Height 36 inches	Octagon Base	Each 15.60
No. 103	Height 30 inches	Octagon Base	Each 13.20
	Height 42 inches	Octagon Base	Each 15.60
No. 104	Height 21 inches	Round Base	Each 10.80
No. 105	Height 36 inches	Square Base	Each 14.40
	Height 48 inches	Square Base	Each 16.80
No. 106	Height 24 inches	Round Base	Each 9.60
	Height 24 inches	Square Base	Each 8.40
No. 116	Height 54 inches	Round Base	Each 43.20

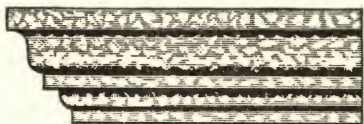
GALVANIZED MOULDINGS IN 10 FEET LENGTHS

Price on Application



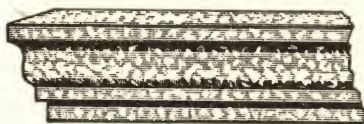
No. 1.

Height 6 inches
Projection 5 inches
Girt 12 inches



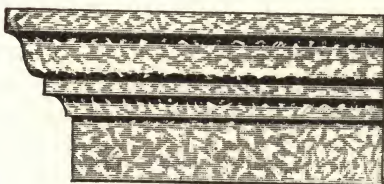
No. 2.

Height 8 inches
Projection 6 inches
Girt 14 inches



No. 3.

Height 8 inches
Projection 4 inches
Girt 15 inches



No. 4.

Height 12 inches
Projection 7 inches
Girt 18 inches

Write for large Catalog showing our complete line of Cornices, Skylights, Ornaments, etc.

CORNICES

Made of Galvanized Steel, of any Design

Price on Application



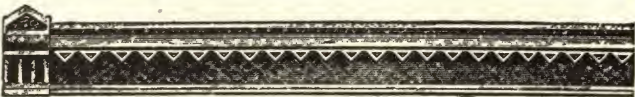
No. 101.

Height 12 inches, projection 10 inches.



No. 102.

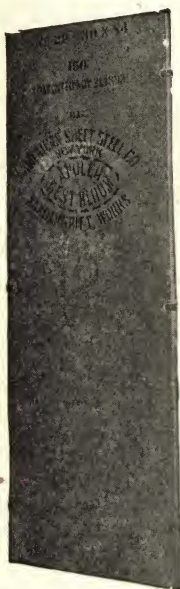
Height 18 inches, projection 10 inches



No. 103.

Height 18 inches, projection 10 inches

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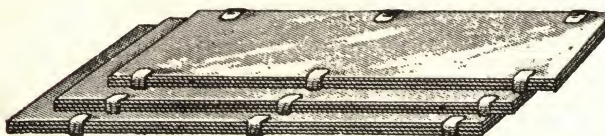
GALVANIZED SHEETS

No. 14	28 x 96	15.20	per 100 lbs.
No. 16	28-30 x 96	15.50	per 100 lbs.
No. 18	28-30 x 96	15.80	per 100 lbs.
No. 20	28-30 x 96	15.80	per 100 lbs.
No. 20	48 x 96	17.40	per 100 lbs.
No. 22	28-30 x 96	16.10	per 100 lbs.
No. 22	36 x 96	16.10	per 100 lbs.
No. 22	40 x 96	16.90	per 100 lbs.
No. 22	44 x 96	17.70	per 100 lbs.
No. 22	48 x 96	18.50	per 100 lbs.
No. 24	24-28 x 96	16.10	per 100 lbs.
No. 24	36 x 96	16.10	per 100 lbs.
No. 24	44 x 96	17.70	per 100 lbs.
No. 24	48 x 96	18.50	per 100 lbs.
No. 26	24-26-28-30 x 96	16.40	per 100 lbs.
No. 26	36 x 96	16.40	per 100 lbs.
No. 27	28 x 96	16.70	per 100 lbs.
No. 28	24-26-28-30 x 96	17.00	per 100 lbs.
No. 28	36 x 96	17.40	per 100 lbs.
No. 30	28-30 x 96	18.00	per 100 lbs.

Three-sixteenths inch Crimped Iron add 60c per 100 pounds to above prices.

Iron sold in less than bundle lots add 50 cents per 100 pounds to above prices.

COLD ROLLED SHEET STEEL



No. 14	28 x 96	13.90	per 100 lbs.
No. 16	28-30 x 96	14.00	per 100 lbs.
No. 18	28-30 x 96	14.10	per 100 lbs.
No. 20	28-30 x 96	14.10	per 100 lbs.
No. 22	28-30 x 96	14.20	per 100 lbs.
No. 24	28-30 x 96	14.20	per 100 lbs.
No. 24	24 x 101	14.20	per 100 lbs.
No. 26	24 x 101	14.30	per 100 lbs.
No. 27	24 x 101	14.40	per 100 lbs.
No. 28	24 x 101	14.50	per 100 lbs.

For Uniform Color Steel, add 20 cents per 100 lbs, to above prices.

Iron ordered in less than bundle lots add 50 cents per 100 pounds to above prices.

WELLSVILLE POLISHED STEEL



No. 26,	34 x 101,	per 100 lbs.	\$15.70
No. 26,	28 x 101,	per 100 lbs.	15.70
No. 27,	24 x 101,	per 100 lbs.	16.00
No. 27,	28 x 101,	per 100 lbs.	16.00

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

WOOD'S PLANISHED IRON



Wood's Patent Planished Iron, per 100 lbs.....	\$24.00
In full packs of 250 lbs.	21.00

WOOD REFINED IRON

No. 24, 24 x 100, per 100 lbs.	\$15.10
No. 26, 24 x 101, per 100 lbs.	15.20
No. 27, 24 x 101, per 100 lbs.	15.30
No. 28, 24 x 101, per 100 lbs.	15.50

Wellsville Polished Steel and Woods Iron when ordered in less than bundle lots add 50 cents per cwt.

ANGLE IRON.

Size	Black Per lb.	Galvanized Per lb.
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$ inch, 20 foot lengths.....	\$0.14	\$0.20
1 x 1 x $\frac{1}{8}$ inch, 20 foot lengths.....	.14	.20
$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{8}$ inch, 20 foot lengths.....	.14	.20

BLACK BAND IRON.

	Per 100 lbs.
$1\frac{1}{4}$ x $\frac{1}{8}$ inch	\$12.50
$1\frac{1}{2}$ x $\frac{1}{8}$ inch	12.50
$1\frac{1}{4}$ x $\frac{3}{8}$ inch	12.00
1 x $\frac{1}{4}$ inch	12.00
$1\frac{1}{4}$ x $\frac{1}{4}$ inch	12.00
$1\frac{1}{2}$ x $\frac{1}{4}$ inch	12.00

BLACK ROD IRON.

	Per 100 lbs.
$\frac{3}{8}$ inch	\$15.00
$\frac{1}{4}$ inch	13.00
$\frac{3}{8}$ inch	12.50
$\frac{1}{2}$ inch	12.50
$\frac{5}{8}$ inch	12.50
$\frac{3}{4}$ inch	12.50

When you are in the market for Steel Ceilings,
write for our New Catalog and Prices.

All prices are F. O. B. Grand Rapids, unless otherwise specified, and
are subject to change without notice.



SHEET COPPER

Copper Tea Kettle Flats

Nos.	8	9
Diameter, inches	10½	11½
Weight per dozen, pounds.....	6	7
Per pound	Market Price	

Copper Boiler Flats

Nos.	8	9
Size	11½x22	12½x23½
Weight per dozen, pounds.....	16	18
Per pound	Market Price	

Boiler Sizes

No. 8—Cold Rolled Polished, 14 oz., 14x56 weight per sheet, 4½ lbs., per pound	Market Price
No. 9—Cold Rolled Polished, 14 oz., 14x60 weight per sheet, 5 lbs., per pound	Market Price
Tinning on one side, per sheet	Market Price

Special Sheet Copper

Cold Rolled Polished, 14 oz., 20x60, tinned one side, per pound	Market Price
Cold Rolled Polished, 14 oz., 22x60, not tinned, per pound	Market Price
Tinned on one side, sheet 20x60 inches, per sheet	Market Price

Cold Rolled Cornice Copper

14 oz.	26 Gauge	30x96	per pound	Market Price
16 oz.	25 Gauge	30x96	per pound	Market Price
20 oz.	22 Gauge	30x96	per pound	Market price
26 oz.	20 Gauge	30x96	per pound	Market Price
40 oz.	18 Gauge	30x96	per pound	Market Price

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.



SHEET ZINC

In Casks. 600 pounds. 300 pounds. 100 pounds.
Loose Sheets.

- No. 9—per pound, market price.
- No. 11—per pound, market price.
- No. 9—30 x 54 in., weight per sheet, 7½ lbs.
- No. 9—36 x 84 in., weight per sheet, 14 lbs.
- No. 9—30 x 96 in., weight per sheet, 13½ lbs.
- No. 11—36 x 96 in., weight per sheet, 21½ lbs.

Comparison of Guages

Zinc Gauge	.....	7	8	9	10	11	12	13	14
U. S. Standard Gauge		29	28	26	25	24	23	22	21
Wt. per sq. ft., in lbs.		.52	.60	.67	.75	.90	1.05	1.20	1.35

NICKELOID

Sheets, 30 x 54. Per sheet\$3.00

Extra charge if crated.

SOLDER

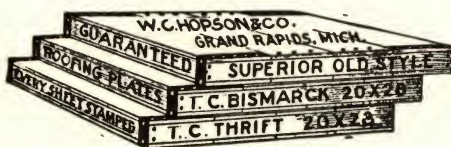
W. C. H. Cos. Best, Strictly 50-50.....Market Price
Hopson's BestMarket Price
Wire Solder, 50-50, No. 10.....Market Price

SHEET BRASS

- No. 20 Gauge. Weight sq. ft. 22 oz. Per pound, market price.
- No. 24 Gauge. Weight sq. ft. 14 oz. Per pound, market price.
- No. 28 Gauge. Weight sq. ft. 9 oz. Per pound, market price.

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

TIN PLATE



ROOFING PLATES

	Per Box
Coin, Worcester Grade, IC, 20 x 28, 8 lb. coating.....	\$36.00
14 x 20 just half price of 20 x 28.	

GUARANTEED ROOFING PLATES

Stamped and Re-Squared

Thrift, Old Style, IC, 20 x 28, 15 lb. coating.....	\$43.00
Thrift, Old Style, IX, 22 x 28, 15 lb. coating.....	48.00
IC Thrift, 14 x 20	22.00
Bismark, Old Style, IC, 20 x 28 size, 25 lb. coating.....	48.00
Bismark, Old Style, IX, 20 x 28 size, 25 lb. coating.....	53.00
Superior Old Style, IC, 20 x 28 size, 40 lb. coating.....	56.00
Superior Old Style, IX, 20 x 28 size, 40 lb. coating.....	61.00

COKE PLATES

Hubert, IC, 20 x 28 size, 180 lbs.....	\$35.50
Hubert, IC, 20 x 28 size, 200 lbs.....	36.00
Hubert, IX, 20 x 28 size, full weight.....	42.00

SPECIAL HEATER PIPE TIN

IC, 20 x 26 size for 8 inch pipe, 112 sheets.....	\$35.50
IC, 20 x 29½ size, for 9 inch pipe, 112 sheets.....	38.00
IC, 20 x 32½ size, for 10 inch pipe, 112 sheets.....	41.50
IC, 20 x 39 size, for 12 inch pipe, 112 sheets.....	50.00
IX, 20 x 26 size, for 8 inch pipe, 112 sheets.....	40.00
IX, 20 x 29½ size, for 9 inch pipe, 112 sheets.....	42.00
IX, 20 x 32½ size, for 10 inch pipe, 112 sheets.....	46.00
IX, 20 x 39 size, for 12 inch pipe, 56 sheets.....	28.00
IX, 24 x 39 size, for 12 inch pipe, 56 sheets.....	36.00

CHARCOAL BRIGHT PLATES

Hilda, Alaway Grade, IX, 20 x 28 size.....	\$54.50
Hilda, Allaway Grade, IXX, 20 x 28 size, 56 sheets.....	32.00
Aurora, Melyn Grade, IC, 20 x 28 size.....	52.00
Aurora, Melyn Grade, IX, 20 x 28 size.....	59.00
Aurora, Melyn Grade, IXX, 20 x 28 size, 56 sheets.....	35.00
Aurora, Melyn Grade, IXXX, 20 x 28 size, 56 sheets.....	38.00
Aurora, Melyn Grade, IXXXX, 20 x 28 size, 56 sheets.....	44.00

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CORRUGATED SHEETS

Galvanized

We carry 4, 5, 8, 10 foot lengths and of a width to lap one corrugation and cover 24 inches

We always ship 8 foot sheets unless otherwise specified.



Two and One-Half Inch Corrugation

These sheets have ten full corrugations $2\frac{1}{2}$ inch from centers, and $\frac{5}{8}$ inch deep. Full width sheets 26 inches, with covering width of 24 inches if laid with a side lap of one corrugation.

Standard Gauge, galvanized, per square.....\$13.00

One and One-Quarter Inch Corrugation

Has twenty full corrugations, each $1\frac{1}{4}$ inch from center and $\frac{3}{8}$ inch deep. Measures over all 25 inches and covers 24 inches with a side lap of one corrugation.

Standard Gauge, galvanized, per square.....\$13.30

Estimating Cost of Corrugated Iron

As no allowance is made for laps, tables below give the number of square feet required to cover one square of surface. Tables are based on Standard size sheets, viz: 96 inches long. A slight variation will occur when longer or shorter sheets are used.

Corrugations $2\frac{1}{2}$ inches from centers.

End Laps	1 in.	2 in.	3 in.	4 in.	5 in.	6 in.
	Sq. ft.	Sq. ft.	Sq. ft.	Sq. ft.	Sq. ft.	Sq. ft.
Side lap 1 Corrugation	110	111	112	113	114	115
Side lap $1\frac{1}{2}$ Corrugation	116	117	118	119	120	121
Side lap 2 Corrugation	123	124	125	126	127	128

Corrugations $1\frac{1}{4}$ inches from centers.

End Laps	1 in.	2 in.	3 in.	4 in.	5 in.	6 in.
	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.
Side Lap—						
1 Corrugation	105 $\frac{1}{3}$	106 $\frac{1}{3}$	107 5-12	108 $\frac{1}{3}$	109	110 7-12
$1\frac{1}{2}$ Corrugation	109	110	111	112 $\frac{1}{3}$	113 $\frac{1}{3}$	115 $\frac{1}{3}$
2 Corrugation	111 $\frac{1}{3}$	112 $\frac{1}{3}$	113 $\frac{1}{3}$	113 $\frac{1}{3}$	115	116 5-12

When desiring to lap $1\frac{1}{2}$ corrugations, sheets finished with one edge curved down and the other up, furnished to order or the same results will be obtained by turning alternate sheets of regular Corrugated upside down.

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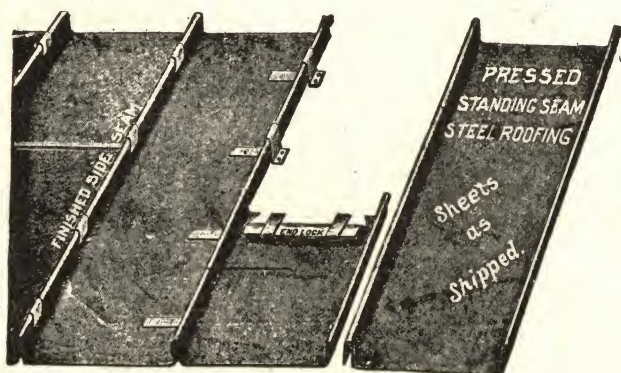
GALVANIZED STEEL ROOFING

Roll Roofing



Standard Gauge Self Cap Roll Roofing with double cross lock, per square	\$14.00
Standard Gauge Roll Roofing notched for double standing seam, with double cross lock, per square.....	14.00
Standard Gauge Roll and Cap Roofing with 10 foot caps, per square	15.20
When cleats are furnished add 20 cents per square to the above prices.	
10 ft. galvanized caps without roofing. Per square.....	1.20

PRESSED STANDING SEAM STEEL ROOFING



Standard Gauge galvanized, per square.....	\$13.70
With Galvanized Cleats 20 cents per square extra.	
We carry 8 and 10 foot sheets in stock.	

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PLAIN PRESSED BRICK SIDING

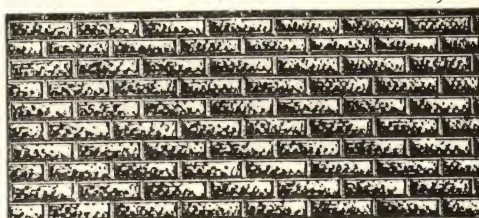


Size of single Brick $2\frac{1}{2} \times 8\frac{1}{4}$ inches.

Furnished in Sheets 28 x 60 inches.

No. 28 Gauge, painter, per square.....	\$10.30
Standard Gauge, galvanized, per square.....	13.30

ROCK FACE BRICK SIDING

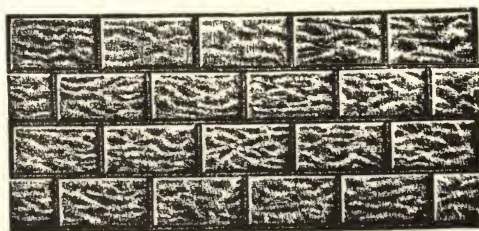


Size of single Brick, $2\frac{1}{2} \times 8\frac{1}{4}$ inches.

Furnished in Sheets, 28 x 60 inches.

No. 28 Gauge, painted, per square.....	\$10.50
Standard Gauge, galvanized, per square.....	13.50

ROCK FACE STONE SIDING



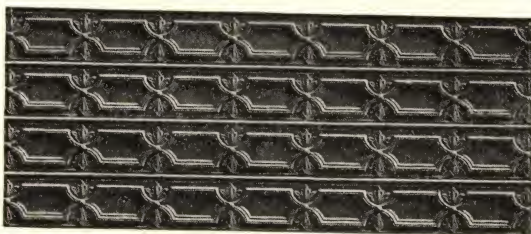
Size of single Stone, 7 x 12 inches.

Furnished in Sheets, 28 x 60 inches.

No. 28 Gauge, painted, per square.....	\$10.50
Standard Gauge, galvanized, per square.....	13.50

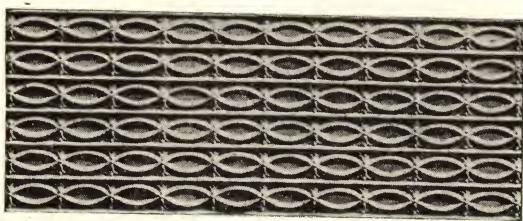
All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

NO. 1002 EMBOSSED CEILING



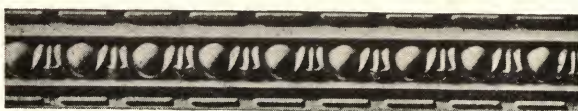
Furnished in sheets
 To cover 24 x 96 inches when applied.
 Primed one coat, per square.....\$10.00
 Over 50 squares, 10c less.

NO. 1003 EMBOSSED CEILING



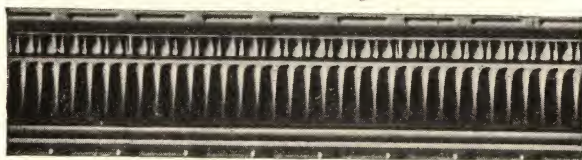
Furnished in sheets
 To cover 24 x 96 inches when applied.
 Primed one coat, per square.....\$9.70
 Over 50 squares, 10c less.

CORNICE NO. 1041



3 inch drop, 2½ inch projection.
 Suitable for either No. 1002 or No. 1003 ceiling.
 Price per lineal foot\$.06

CORNICE NO. 1040



5 inches drop, 3 inch projection.
 Suitable for either No. 1002 or No. 1003 shown above.
 Price per lineal foot\$.08
 Stamped one piece Mitres, each50
 Write for our large ceiling catalog.

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Roofrite

SHINGLES

Roofrite Metal Shingles are not an experiment. Their lasting qualities and general superiority to other materials have given them preference with builders who demand high quality in both efficiency and wear. For the pitched roof, the Roofrite Shingle affords a lasting protection. It is economical and it is watertight. It will last indefinitely.



Model 1
Size 10 x 14 inches



Model 2
Size 10 x 14 inches

Model 1, galvanized, per square.....	\$20.00
Model 2, galvanized, per square.....	20.00

EASE OF LAYING

From an upright position each shingle is slipped into the watertight side lock of its neighbor. When laid flat they are tightly locked together and no moisture can work back past the lock. Two nails to a shingle are the only fastenings required. Note that the nail holes are outside the lock. The shingles lap at the end and no soldering is necessary.

Special Roofrite parts are furnished for finishing valleys, ridges, hips and gables. They are easy to attach and all possibility of leaking is prevented by the same principle on which the water-tight shingle lock operates.

Roofrite Shingles are light in weight and easy to handle. Enough play is left in the lock joints and lap-ends to allow for expansion and contraction. Unlike large unwieldy sheets of metal, Roofrite Shingles will not buckle, crack or leak at seams. As each shingle is held solid by the two nails, the roof cannot rattle or loosen when in use.

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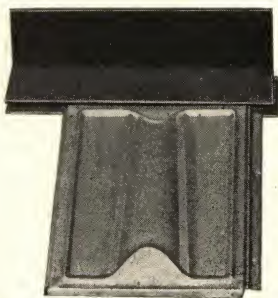
ROOFRITE SHINGLE TRIMMINGS



Roll Ridge Coping



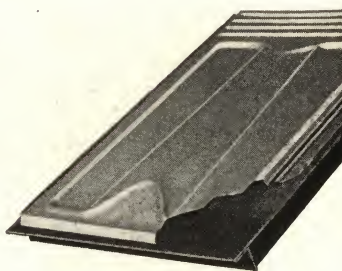
Plain Ridge Coping



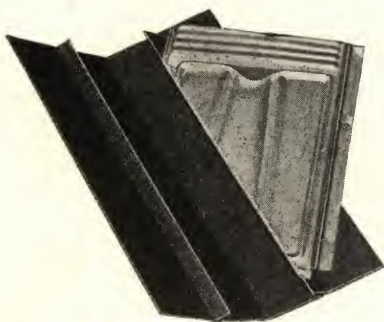
Top Wall Flashing



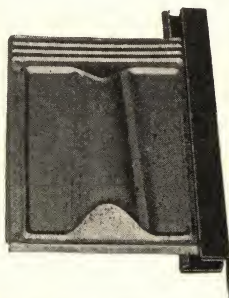
Side Wall Flashing



Metal Eave Finish



Roofrite Valley



Gable End Finish

Roofrite Valley, 14 inch girt, per lineal ft.....	\$.22
Roofrite Valley, 18 girt, per lineal ft.....	.30
Gable End Finish, per lineal ft.....	.14
Top Wall Flashing, per lineal ft.....	.20
Side Wall Flashing, per lineal ft.....	.16
Roofrite Metal Eave Drip, per lineal ft.....	.07
Roofrite Roll Ridge Coping, per lineal ft.....	.36
Roofrite Plain Ridge Coping, per lineal ft.....	.28
Roofrite Roll Hip Covering, per lineal ft.....	.36
Roofrite Plain Hip Covering, per lineal ft.....	.28

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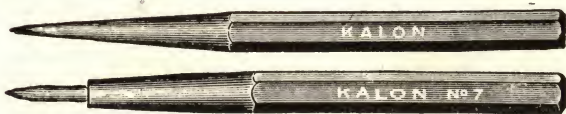


TINNERS RIVETS

Size	Tinned Rivets Per 1000	Black Rivets Per 1000
8 oz.	\$0.38	\$0.26
10 oz. ....	.42	.30
12 oz. ....	.48	.32
1 lb. ....	.56	.36
1¼ lb. ....	.64	.38
1½ lb. ....	.76	.44
1¾ lb. ....	.86	.50
2 lb. ....	.96	.54
2½ lb.	1.20	.68
3 lb.	1.38	.76
4 lb.	1.80	.92
5 lb.	2.26	1.20
6 lb.	2.60	1.34
8 lb.	3.50	1.80
10 lb.	4.22	2.12
12 lb.	4.94	2.48
14 lb.	5.82	2.88

8 oz. to 8 lb. inclusive, put up 1000 in package.

10 lb. to 12 lb. put up 500 in package.



KALON SCREWS—Round Head

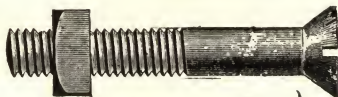
Number	6	7	10	14
Length, inches	¾	½	¾	¾
Price, per gross.....	\$0.90	\$1.02	\$1.34	\$1.66
Kalon Stop Punch, each.....	.70	.70	.70	.70
Kalon Straight Punch, each.....	.50	.50	.50	.50

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STOVE BOLTS



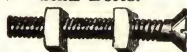
Round Head.



Flat Head.

	3-16 in. Round Head or Flat Head	1-4 in. Round Hea or Flat Hea
$\frac{3}{8}$ inch	\$0.62	
$\frac{1}{2}$ inch .....	.62	\$0.86
$\frac{5}{8}$ inch .....	.62	.86
$\frac{3}{4}$ inch .....	.62	.86
$\frac{7}{8}$ inch .....	.64	.90
1 inch .....	.64	.94
$1\frac{1}{4}$ inch .....	.72	1.00
$1\frac{1}{2}$ inch .....	.80	1.08
$1\frac{3}{4}$ inch .....	.82	1.12
2 inch .....	.86	1.16
$2\frac{1}{4}$ inch .....	.90	1.22
$2\frac{1}{2}$ inch .....	.94	1.30
3 inch	1.08	1.44
$3\frac{1}{2}$ inch	1.22	1.58

Sink Bolts.



SINK BOLTS

$\frac{1}{4} \times 2\frac{1}{2}$ Inch With Two Nuts

Per dozen	\$0.32
Per Package of 100	1.84

MARKET WIRE

Coppered or Galvanized
Per 100 Pounds



	Coppered	Galvanized
6	\$10.00	\$10.50
8	10.00	10.50
9	10.00	10.50
10	10.50	11.20
12	10.90	11.50
14	11.50	12.30
16	12.50	13.30

Less than full coils add 2c lb. to
above list.

ANNEALED STOVE PIPE

WIRE

Nos.	18	20
Put up in 12 lb. Stones, per pound.....	\$0.17	\$0.18
Put up in 50 foot Coils, per dozen coils.....	1.00	1.20

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REGO RUBBER ROOFING

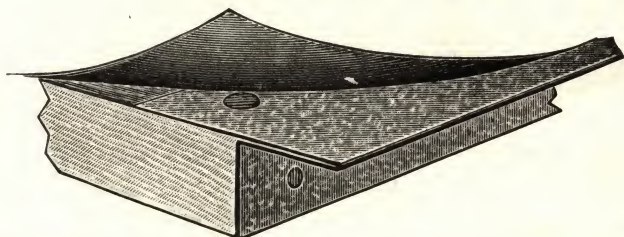
The base of this roofing is a uniform, closely formed wool felt, this is thoroughly saturated with a solution of Asphalt and Mineral Rubber which makes it absolutely moisture proof.

Each roll contains 108 square feet, enough to cover 100 square feet of surface, allowing 2 inch lap. Large Head Nails, Cement for lap packed in each roll.

One Ply Rego Rubber Roofing. Per square.....	\$3.80
Two Ply Rego Rubber Roofing. Per square.....	4.70
Three Ply Rego Rubber Roofing. Per Square.....	5.60
25 square or more.....	10c square less

HOPSON'S METAL EAVE DRIP

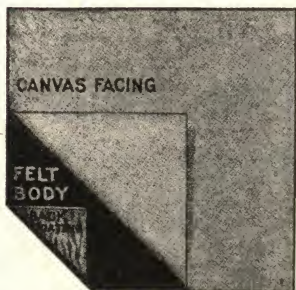
For Use With All Kinds Prepared Roofing Composition Shingles or Metal Shingles



Furnished in 10 foot lengths, per foot.....\$7.00

PARADUX CANVAS ROOFING

For Porch Decks, Sleeping Porches, and All Piazza Roofs.



Showing the Construction of Paradux

Is composed of a layer of strong, long-fibre felt which has been thoroughly saturated with a non-drying, waterproof compound, and then coated on the top and bottom side with our special water proof and fire-resisting gums. To the surface of this sheet of waterproof felt is affixed a strong layer of canvas. Is laid with the canvas side up and is then painted any color desired.

Paradox is 36 inches wide and is put up in 1 square and 2 square rolls. Cement and nails in each roll.
Per 100 sq. ft.....\$19.00

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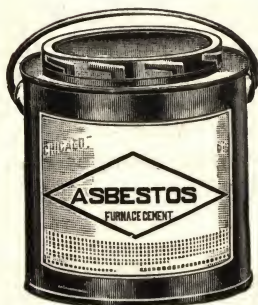
ASBESTOS BUILDING FELT

Used for Putting Under Siding, Etc., and for Covering Hot Air Furnace Pipes

10 pounds per square, per lb.....	18c
12 pounds per square, per lb.....	18c
14 pounds per square, per lb.....	18c
50 and 100 lb. rolls.	

ASBESTOS FURNACE CEMENT

The strongest and most durable cement in use for "setting up" and repairing broken joints in furnaces, ranges, heaters and stoves. It is prepared ready for use, adheres readily and firmly to castings and tin, and "sets" in a few hours. When subjected to heat it vitrifies without shrinking or becoming porous; it is inodororous and effectually prevents escape of smoke, gases and dust, thus assuring perfect draft.



	Tharco	Pecora
1 lb. cans, per lb.....	\$0.20	\$0.22
5 lb. cans, per lb.....	.17	.19
10 lb. cans, per lb.....	.17	.19
25 lb. cans, per lb.....	.16	.18



STICK-FAST PASTE

Dry powder which enables you to mix up in any quantity desired.

Used in pasting asbestos paper on furnace pipe.

5 lb. bags	\$0.30
10 lb. bags .....	.30
25 lb. bags .....	.28
50 lb. bags .....	.26
200 lb. barrels .....	.24

FEDERAL ROOFING CEMENT

10 lb. cans, per pound.....	\$0 .28
25 lb. pail, per pound.....	\$0 .24

FEDERAL LIQUID FIBRE CEMENT

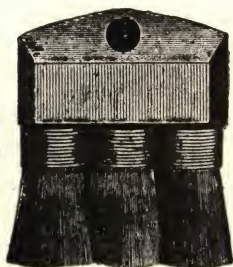
1 Gallon Cans	\$1.80
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Easily Applied—Its application is very simple. Any person with ordinary intelligence can apply it quickly without any difficulty.

Its Adaptation—It is especially adapted for Tin, Galvanized, Iron, Gravel, Paper and Composition Roofs, and Metal Sidings.



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SPECIAL ROOFING PAINT BRUSHES

Bristle Outside; Middle, Mixed Quality

3 Knoteach, \$3.00

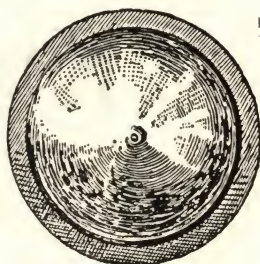


TIN ROOFING CAPS

To lay 100 square feet of Roofing requires about one pound of $1\frac{1}{4}$ inch tin caps.

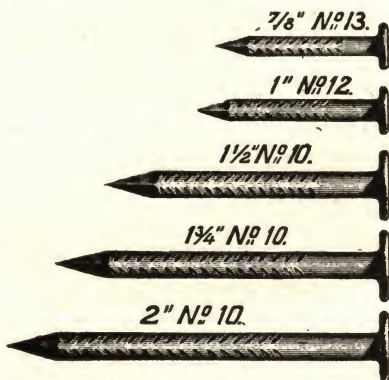
Per Pound

Less than 50 pounds.....20c
50 pounds or over.....18c



- 1 Inch American Felt Roofing Nails, per 100 lbs.....
- 1 Inch American Felt Roofing Nails, per pound.....
- $1\frac{1}{2}$ In. Galv. Large Head No. 10 Roofing Nails, per 100 lbs.....
- $1\frac{1}{2}$ In. Galv. Large Head No. 10 Roofing Nails, per lb.....
- 1 Inch No. 12 Large Head Galvanized Nails, per 100 lbs.....
- 1 Inch No. 12 Large Head Galvanized Nails, per lb.....

BARBED WIRE ROOFING NAILS



Size	No. Wire	Bright Wire	Bright Wire
$\frac{7}{8}$ inch	12	per pound,	per keg,
$1\frac{1}{4}$ inch	10	per pound,	per keg,
$1\frac{1}{2}$ inch	10	per pound,	per keg,

LEAD WASHERS

No. 2 (hole 5-32 inch), diameter of washer $\frac{1}{2}$ inch, per lb.....\$0.40

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ROOF PAINTS

Carbonall Crimson Oxide (Red)
Quick Drying

Five Gallon Cans	\$3.90
One Gallon Cans	4.00

Carbonall Gloss Black Paint
Quick Drying

Five Gallon Cans	\$3.70
One Gallon Cans	3.80



National Tinnners Red

One Gallon Cans	\$4.90
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SALMONIAC



In cakes of about 2 lbs., per lb.....	\$1.50
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ROSIN

Per lb.	\$0.20
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MARKING CRAYONS

Soapstone, per dozen	\$0.60
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MURIATIC ACID

Per gallon	\$2.50
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ACID SWABS



Per dozen	\$0.50
Per gross	4.00

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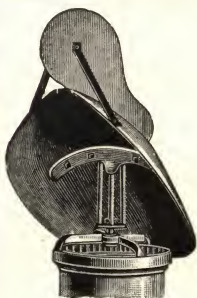
CYCLOID SWING CHIMNEY TOPS

Sure Draft, Sure Swing

The Cycloid is the Easiest Turning Chimney Top Made.

It is bolted on the outside of pipe so as to give full capacity to the stack, and allows no soot to collect.

The bearing being at the extreme point, makes it the simplest and easiest turning top on the market.



Size

	Castings Only	Tops Complete
6 inch, per dozen	\$13.50	\$24.00
7 inch, per dozen	15.50	27.50
8 inch, per dozen	17.00	30.00
9 inch, per dozen	18.50	33.00
10 inch, per dozen	20.00	36.00
12 inch, per dozen	24.00	42.00



GALVANIZED PIPE AND EXTRA CAPS

For Chimney Tops

6 in., 26 gauge, Galvanized Pipe, 24 in. long, per joint	\$1.20
7 in., 26 gauge, Galvanized Pipe, 24 in. long, per joint	1.28
8 in., 26 gauge, Galvanized Pipe, 24 in. long, per joint	1.36
6 in., 26 gauge, Chimney Top Caps, each .....	.90
7 in., 26 gauge, Chimney Top Caps, each .....	.90
8 in., 26 gauge, Chimney Top Caps, each	1.00

SIX INCH

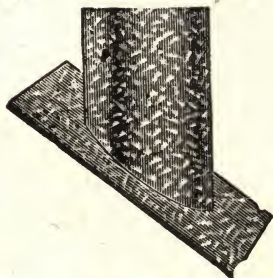
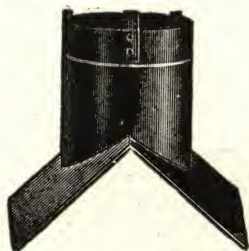
TOP ROOF SADDLES

No. 10 Galvanized Iron 12 in. long, each	\$1.20
No. 15 Smooth Steel, 12 in. long, each	1.10

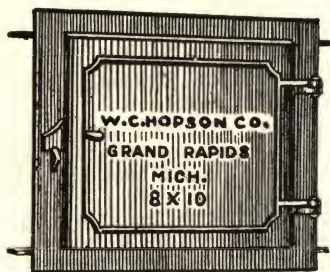
SIX INCH

SIDE ROOF SADDLES

No. 30 Galvanized Iron, 12 inch, long, each	\$1.20
No. 35 Smooth Steel, 12 inch, long, each	1.10



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ASH PIT OR FLUE DOORS

Cast Iron

Size	
8x 8 inches	\$1.60
8x10 inches	1.80
10x12 inches	2.40
10x14 inches	2.70
14x19 inches	7.00



CAST IRON CISTERN COVERS

Safety Self Locking

It is very simple to operate, sure to lock and looks very neat.

17 inches Leader Cistern Cover, each.....	5.50
22 inches inside diameter with 3 inch flange, each.....	16.00

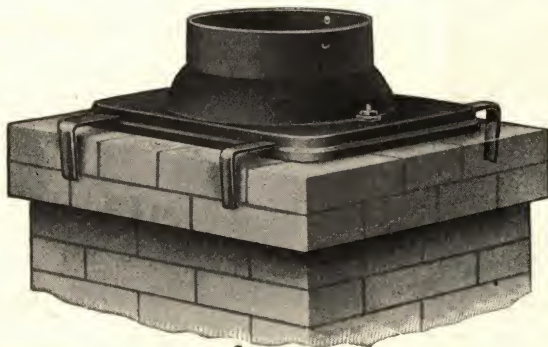
CAST IRON MAN-HOLES

For Sidewalks, Wells, Etc.

This cover is constructed so as to lock from the inside.

17 inches inside diameter with 6 inch flange, each.....	\$15.00
22 inches inside diameter with 6 inch flange, each.....	16.00

VICTOR CHIMNEY TOP Made of Cast Iron



It has wrought iron legs which hold on outside of brick with only two bolts which fastens the top firmly together.

Made in the Following Sizes:

No. 7 for Chimneys 1½x2 Brick, Flues 4x8; 2x2 Brick, Flues 8x8; size of Pipe 7 inches, per dozen.....	\$36.00
No. 8 for Chimneys 1½x2½ Brick, Flues 4x12; 2x2½ Brick, Flues 8x12; size of Pipe 8 inches, per dozen.....	42.00

Our line of RED SEAL Garbage and Ash Cans are made from heavy galvanized iron with bottoms well seamed on and soldered. They have heavy drop handles well riveted in place. We strip this entire line in red which makes an attractive appearance in your store.



RED SEAL GARBAGE CAN

No. 1—12x15	7 gallons, each	\$2.00
No. 2—14x18	12 gallons, each	2.70
No. 3—15x24	18 gallons, each	4.50
No. 4—18x24	26 Gallons, each	6.50



RED SEAL GARBAGE PAIL

No. 10—12x15	7 gallons, each	\$2.30
No. 11—14x18	12 gallons, each	3.00



RED SEAL ASH CAN

No. 30—15x26	18 Gal.	
Each	.....	\$5.50
No. 31—18x26	26 Gal.	
Each	.....	6.50
No. 32—20x26	33 Gal.	
Each	.....	7.50

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

RED SEAL OILY WASTE CANS



The Red Seal Oily Waste Can is made from heavy galvanized iron with all seams soldered. Has heavy drop forge handles and strong legs which hold the can up from the floor. Cover is fastened on with heavy spring hinges which closes the can automatically. They are absolutely fireproof and where they are used fire from spontaneous combustion is impossible. This can is heartily indorsed by the fire underwriters as the safest possible container for the purpose. Attractively striped in red.

No. 40—12x15	7 Gallons	Each	\$4.00
No. 41—15x18	12 Gallons	Each	5.50
No. 42—15x24	18 Gallons	Each	6.00
No. 43—18x24	26 Gallons	Each	7.00

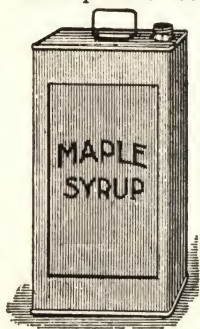
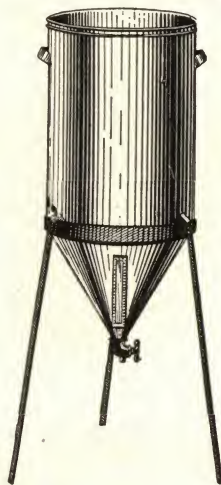
STANDARD CREAM SEPARATORS

Made in Three Sizes, From Best Quality

Extra Heavy Charcoal Tin.

No. 0—7 Gallon, with cover	Each	\$6.00
No. 1—10 Gallon, with cover		7.00
No. 2—15 Gallon, with cover		8.00
No. 3—20 Gallon, with cover		9.00
Cover with strainers	each	.70

If Separators are desired without cover deduct price of cover.



SYRUP CANS

1/4 Gallon	Each	\$0.34
1/2 Gallon		.38
1 Gallon		.46

NEW STANDARDIZED RURAL DELIVERY BOXES

Approved by Postmaster General.

No. 1	18½ in. long, 6¼ in. wide and 7½ in. high, per doz.	\$24.00
No. 2	23½ in. long, 11 in. wide and 14 in. high, each	6.00

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GALVANIZED STEEL TANKS

With Heavy Wrought Iron Bands at the Top



Diam. In.	Height In.	Gauge No.	Capacity U.S. Gal.	Diam. In.	Height In.	Gauge No.	Capacity U. S. Gal.
24	12	26	23.50	42	48	22	287.87
24	24	26	47.00	42	54	22	323.86
24	30	26	58.75	42	60	20	359.85
24	36	26	70.50	42	72	20	431.82
24	42	24	82.25	48	12	26	94.00
24	48	24	94.00	48	24	26	188.00
24	54	24	105.75	48	30	24	235.00
24	60	24	117.50	48	36	24	282.00
24	72	26	141.00	48	42	24	329.00
30	12	26	36.72	48	48	22	376.00
30	24	24	73.44	48	54	22	423.00
30	30	24	91.80	48	60	20	470.00
30	36	24	110.16	48	72	20	564.00
30	42	24	128.52	54	12	26	118.97
30	48	24	146.88	54	24	26	237.94
30	54	24	165.24	54	30	24	297.42
30	60	24	183.60	54	36	24	356.91
30	72	24	220.32	54	42	24	416.39
36	12	26	52.88	54	48	22	475.88
36	24	26	105.76	54	54	22	535.36
36	30	24	132.20	54	60	20	594.85
36	36	24	158.64	54	72	20	713.82
36	42	24	185.08	60	12	24	146.88
36	48	22	211.52	60	24	24	293.76
36	54	22	236.96	60	30	24	367.20
36	60	22	264.40	60	36	24	440.64
36	72	22	317.28	60	42	24	514.08
42	12	26	71.97	60	48	22	587.52
42	24	26	143.94	60	54	22	660.96
42	30	24	179.925	60	60	20	734.40
42	36	24	215.91	60	72	20	881.28
42	42	24	251.89				

Write for Prices.

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UNIQUE BATH TUB



Can be used Stationary or Portable

The Unique Bath Tub is made of Galvanized Steel with Metal Roll Rim. It is Enameled White inside and nicely Painted outside.

No. 1—Tub 5½ feet	\$11.00
No. 2—Tub 6 feet	13.00

CAR STOVES



CAR STOVE

Our Car Stoves are made from refined, smooth steel, fitted with substantial legs and cross braced. Each leg is flanged at the bottom and drilled so that they can be securely fastened to the floor.

The price is low and includes three and one-half lengths of five inch pipe, two elbows and one tin collar flange with every stove.

No. 18—18 x 24 inches long, No. 26 Gauge.....	\$10.00
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SALAMANDERS

Used for heating mortar, drying plaster and heating buildings in course of construction.

Made of heavy black iron, with cast iron grate and large ash pan to prevent danger from fire. For coke, coal or wood.

Height	Diameter Body	Diameter Ash Pan	Each
30 in.	15 in.	21 in.	\$12.00

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STOVE PIPES—NESTED COMMON PIPE

5 inch—24 inch Joints, each.....	35c
6 inch—24 inch Joints, each.....	37c
7 inch—24 inch Joints, each.....	41c
7 inch to 6 inch taper Joints, each	45c

UNIFORM COLOR

5 inch—24 inch Joints, each.....	36c
6 inch—24 inch Joints, each.....	38c
7 inch—24 inch Joints, each.....	44c
7 inch to 6 inch taper Joints, each..	46c

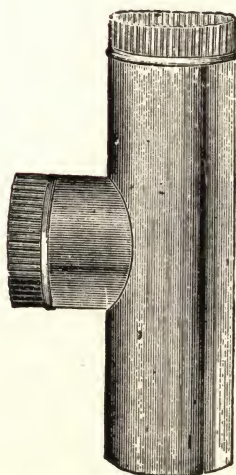


WOOD'S SMOOTH STEEL

5 inch—24 inch Joints, each.....	42c
6 inch—24 inch Joints, each.....	44c
7 inch—24 inch Joints, each.....	48c
7 inch to 6 inch taper Joints, each..	52c

WELLSVILLE POLISHED STEEL

6 inch—24 inch Joints, each.....	52c
6 inch—28 inch Joints, each.....	64c
7 inch to 6 inch taper Joints, 24 inch, each	80c
7 inch to 6 inch taper Joints, 28 inch, each	90c



HAMMERED POLISHED STEEL

6 inch—28 inch Joints, each.....	80c
7 inch to 6 inch taper Joints, each	\$1.00

Add for made up pipe 4c joint, list.
The price of Half Joints is equal to
one-half price of Full Joint, plus two
cents list.

TEE JOINTS

Uniform Blue, each.....	70c
Woods Smooth, each.....	80c

Crating charged at cost on Tapers
and Tee Joints when ordered crated.

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are subject to change without notice.

STOVE PIPE ELBOWS

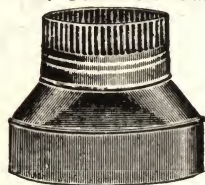


CORRUGATED ELBOWS

Size, Inches	3	4	5	6	7
Uniform Blue 28 gauge, per doz.	\$3.20	3.40	\$3.60	\$3.70	\$4.50
Polished Steel, per dozen	.....	.....	.....	5.70	.....

PIECED ELBOWS

6 in. Adjustable Blue Steel, per dozen.....	\$4.50
7 in. Common four pieced, per dozen.....	3.75



STOVE PIPE REDUCER

7 Inch Oval to 6 Inch Round.
Uniform Color Blue

Per dozen\$5.50

CAST SMOKE PIPE DAMPERS

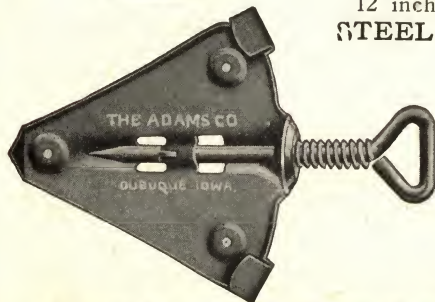
Strong Catch, Long, Sharp Point, Bronzed Handle

3 inch, per dozen.....	\$2.00
4 inch, per dozen.....	2.20
5 inch, per dozen.....	2.30
6 inch, per dozen.....	2.60
7 inch, per dozen.....	4.80
8 inch, per dozen.....	7.30
9 inch, per dozen.....	9.00
10 inch, per dozen.....	10.80

UNCLE SAM'S
DAMPERS FOR HOT
AIR PIPES

7 inch, per dozen.....	\$4.00
8 inch, per dozen.....	5.00
9 inch, per dozen.....	5.50
10 inch, per dozen.....	6.00
12 inch, per dozen.....	7.00

STEEL DAMPER CLIP



Per doz. without Tail Pieces	\$ 2.00
Per dozen with Tail Pieces	2.40
Per gross without Tail Pieces	\$21.60
Per gross with Tail Pieces	26.40

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Rapid No. 1



Rapid No. 2



Standard

"RAPID" HEATING DRUM NO. 1

The No. 1 "Rapid" Heating Drum is one of our latest productions, made of Wellsville polished steel and fitted with cast iron legs.

Price\$8.00

"RAPID" HEATING DRUM NO. 2

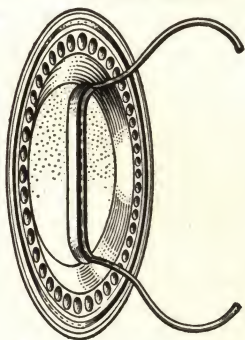
The No. 2 "Rapid" Heating Drum is made up after the same manner as the No. 1, but instead of being used on the floor it is fitted as the second length of the stove pipe. It is made of Wellsville polished steel and well put together.

Price\$8.00

"STANDARD" HEATING DRUM

It is made of Wood's smooth iron, fitted with three legs, and, as a moderate priced drum, will give general satisfaction.

Price\$6.00



FLUE STOPS

The Flue Stops are finished in brass with chromo in center, the wire fasteners are so shaped as to make them perfectly secure.

No. 3—6 inches, per dozen.....\$2.20

No. 1 Flue Stop is made same as No. 3 only with flat surface.

No. 1—6 inches, per dozen.....\$2.20

STOVE PIPE COLLARS

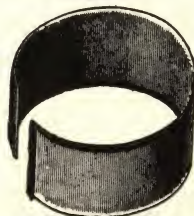
Fancy Patterns, Gold Lacquered,
Wide Flange

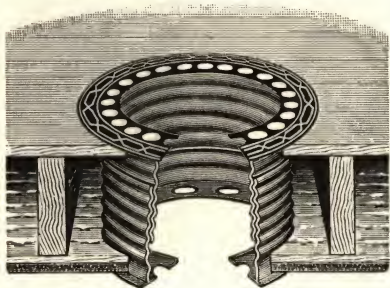
5 inch	\$1.50
6 inch	1.50
7 inch	2.20



NESTED CHIMNEY THIMBLES

6x4 inches, per dozen.....	\$1.20
6x6 inches, per dozen	1.30
7x4 inches, per dozen	1.50
8x4 inches, per dozen	2.00
9x4 inches, per dozen	3.00





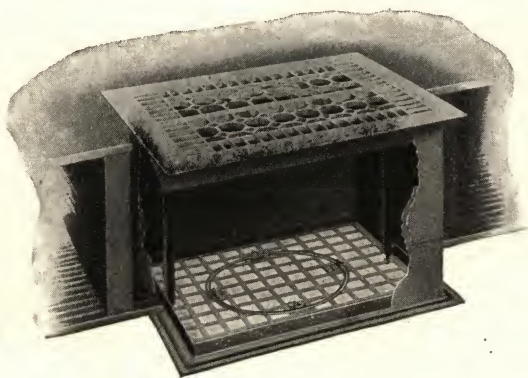
O. K. WALL AND FLOOR THIMBLES

Size Adjusts from	
No. 15. 6 in., 4 to 7½ in.,	
per dozen	\$14.50
No. 25. 6 in., 7½ to 12¼	
in., per dozen	\$15.50
No. 30. 7 in., 7½ to 12¼	
in., per dozen	\$17.50

BUTTLE'S SAFE HEADS Packed One Dozen Set in Crate

Size, inches	6	7	8
Per dozen sets	\$6.50	\$8.00	\$13.00

THE INDEPENDENT ADJUSTABLE VENTILATOR



No. 440—Size of Opening 8 x 10, each.....	\$6.16
No. 442—Size of Opening 9 x 12, each.....	7.56
No. 443—Size of Opening 10 x 12, each.....	8.96
No. 445—Size of Opening 12 x 14, each.....	14.00

Will Fit all Ordinary Ceilings

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SUPERIOR HOT AIR FURNACES

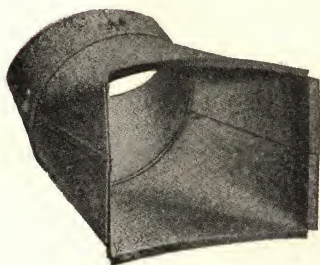
With Cast Radiator

Prices
on
Application

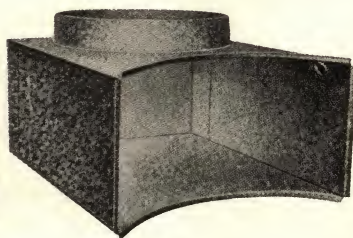
Dimensions and Capacities

No. of Furnace	Diam. Case Ring	Diam. Fire-Pot	Diam. Grate	Depth Fire-Pot	Height Furnace	Height Casing	Sq. Feet Radiating Surface	Ordinary Heating Capacity Cubic Feet	
28	28	18	16	11	44	56	36	6	to 8000
32	32	20	18	12	46	58	40	10	to 12000
36	36	22	20	13	48	60	46	15	to 18000
40	40	24	22	14	50	64	56	18	to 25000
44	44	26	24	14	52	65	66	30	to 40000
48	48	28	26	15	54	66	72	40	to 50000
54	54	30	28	17	58	72	80	50	to 65000

COLD AIR SHOES



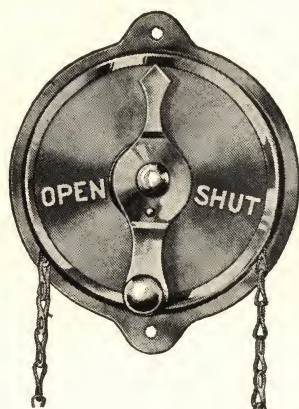
Style G



Style F

Diam. of Furnace Casing Inches	Size of Shoe Inches	Size of Collar Inches	Price of Shoe	
			Style G	Style F
28	12x16	14	\$ 2.80	\$ 3.30
32	12x18	15	3.60	5.80
36	14x20	16	4.00	6.80
40	16x20	16 to 18	4.50	7.80
44	16x22	18 to 20	7.00	8.00
48	16x28	20 to 22	9.60	10.20

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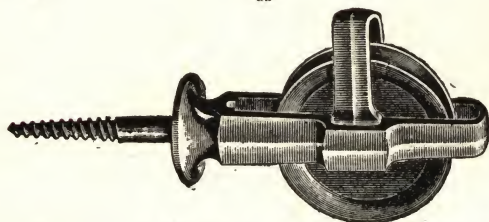


FURNACE REGULATOR

Made of heavy, cold roled steel; furnished in oxidized copper finish. Diameter of face, $4\frac{1}{2}$ inches.

Furnished from stock with lettering "Open" and "Shut."

Price, each\$1.00



SCREW PULLEY

For Rope or Chain

Japanned $1\frac{1}{2}$ inch Wheel, per dozen\$1.50

SAFETY FURNACE CHAIN



No. 00 Steel Safety Chain, Flat Link, 12 Yards in Box.....\$1.70



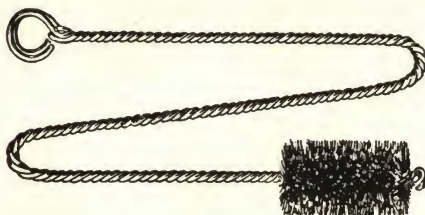
ADAMS CHECK DRAFT

Can be used on Side or End of Pipe.

	Check and Collar Complete	Check Only
7 inch	\$2.00	\$1.70
8 Inch	2.50	2.10
9 Inch	2.80	2.40
10 Inch	3.00	2.70

SUPERIOR CHECK DRAFT

To fit on end of pipe, 7 inch, each.....	\$2.00
To fit on end of pipe, 8 inch, each.....	3.20
To fit on end of pipe, 9 inch, each.....	3.60

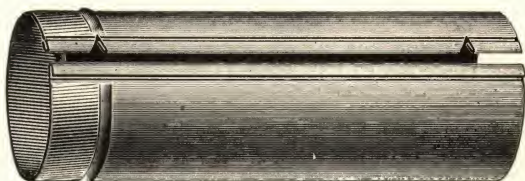


FURNACE BRUSHES

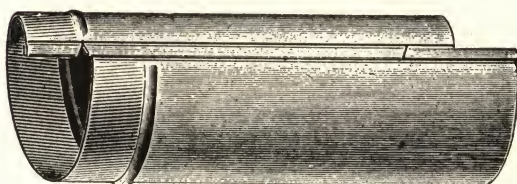
4 Inch Wire Furnace Brush, per dozen.....	\$13.00
5 Inch Wire Furnace Brush, per dozen.....	14.00
4 Inch Fibre Furnace Brush, per dozen.....	9.50
5 Inch Fibre Furnace Brush, per dozen.....	10.00

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Hopson's Nested Hot Air Pipe A Lock at Both Ends

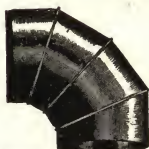
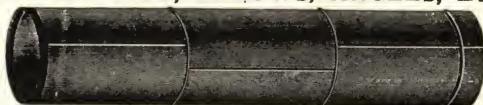


Cut No. 1
Hopson Pipe before being locked



Cut No. 2
Packed 50 feet in case
The way to lock Hopson Pipe

HOT AIR PIPE, ELBOWS, ANGLES, ETC.



Four Piece Elbow. IC & IX.



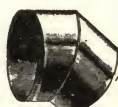
First Floor Register Box.



Three Piece Elbow.



21 1/4-Degree Angle. IC & IX.



42-Degree Angle. IC and IX.



Four Piece Elbow
for Smoke Pipe



Casing Collar, Style C—For
Side of Straight Bonnet.



Style B,
For Side of Bonnet,
Having 75 or 60 degree pitch



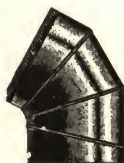
Casing Collar, Style A,
For Top of Bonnet.



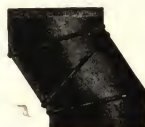
Three Piece Elbow
For Smoke Pipe.



Galvanized Adjustable Elbow.



Tin Adjustable Elbow.



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PRICES OF ROUND PIPE, NESTED FURNACE PIPE, CASING COLLARS, ELBOWS, TEES, ETC.

SIZE	7 in.	8 in.	9 in.	10 in.	12 in.	14 in.	16 in.	18 in.	20 in.	24 in.
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IC TIN PIPE AND ELBOWS

Hot Air Pipe made in 6½ ft. lengths, per foot52	.56	.62
Hopson's Nested Pipe made in 20 in. Joints per foot50	.52	.60
Adj. Elbows, 4-piece, each	....	.70	.76	.90	.....	.....	.....	.....	.....	.....
Sta. Angles, 2-piece, 22 or 45 degrees, each	....	.44	.46	.52	.....	.....	.....	.....	.....	.....

IX TIN PIPE AND ELBOWS

Hot Air made in 6½ ft. lengths, per foot	....	.....	.....	.....	.82	1.08	1.24	1.54	1.84	.....
Hopson's Nested Pipe made in 20 inch lengths, per foot	....	.....	.....	.....	.80	1.06	1.20	1.50	.....	.....
Adj. Elbows, 2-piece, each	....	.....	.....	.....	1.50	2.26	3.00	.....	.....	.....
Sta. Angles, 2-piece, 22 or 45 degrees, each	....	.....	.....	.....	1.02	1.66	2.40	.....	.....	.....

No. 26 Ga. GALV. IRON PIPE AND ELBOWS

Galv. Iron Pipe made in 24 in. lengths, per foot	.64	.68	.70	.78	1.02	1.12	1.28	1.60	1.92	2.88
Adj. Elbows, 4-piece	.96	1.12	1.28	1.60	2.24	2.88	3.84	4.80	5.76	8.32
Sta. Angles, 2-piece, 22 or 45 degrees, each	.80	.84	.96	1.12	1.44	1.60	2.40	2.88	3.20	.....
Tees, each	2.40	2.86	3.30	3.76	4.80	.....	.....	.....	.....	.....

No. 24 Ga. GALV. IRON PIPE AND ELBOWS

Galv. Iron Pipe made in 24 inch lengths, per foot	.80	.86	.92	1.02	1.34	.....	.....	.....	.....	.....
Adj. Elbows, 4-piece, each	1.28	1.44	1.76	2.08	2.72	.....	.....	.....	.....	.....
Sta. Angles, 2-piece, 22 or 45 degrees, each	.90	.96	1.12	1.28	1.60	.....	.....	.....	.....	.....
Galv. Iron Tees, each	2.88	3.42	3.96	4.50	5.76	.....	.....	.....	.....	.....

No. 24 GAUGE, BLACK PIPE AND ELBOWS

Black Nested Pipe per foot	.64	.68	.70	.78	.....	.....	.....	.....	.....	.....
Adj. Elbows	.96	1.12	1.28	1.60	.....	.....	.....	.....	.....	.....
Angles 22 or 45 degrees	.80	.84	.96	1.12	.....	.....	.....	.....	.....	.....

Casing Collars, Cut A	....	.38	.44	.48	.58	.74	.96	1.22	1.44	.....
Casing Collars, Cut B	....	.52	.58	.64	.78	.96	.....	.....	.....	.....
Casing Collars, Cut C	....	.64	.74	.80	.96	1.18	.....	.....	.....	.....

PRICE FOR FIRST FLOOR REGISTER BOXES.

Size of Registers, inches....	8x10	8x12	9x12	10x12	10x14	12x14	14x18
Size of Collar, inches.....	8	8	9	10	10	12	14

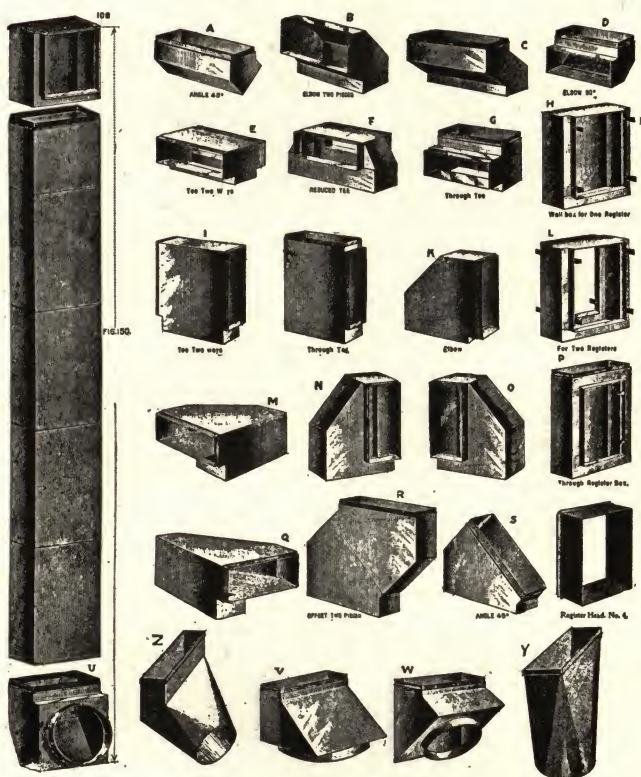
IC Tin, each	.90	.96	.96	1.08	1.20	1.44	.....
IX Tin, each	.....	.....	.....	.....	.....	.....	2.70
Galvanized Iron, each	1.44	1.60	1.60	2.08	2.24	2.40	3.20

Size of Registers, inches....	16x20	16x24	18x24	20x24	21x29	24x30
Size of Collars, inches.....	16	16	18	20	20	24

IX Tin, each	3.76	4.50	5.40	6.00	8.26
Galvanized Iron, each	4.16	4.80	5.76	6.40	8.00	10.40

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PRICE OF SINGLE WALL PIPE AND FITTINGS

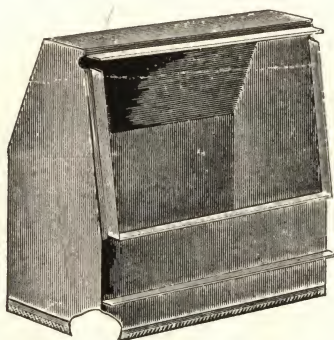


Pipe Made 6 foot lengths.

PIPE		FITTINGS										Size of Register Boxes and Collars of Foot Pieces for each Size of Pipe.											
Size of Pipe	Price per Foot	U	V	W	Y	L	B	C	A	K	R	S	E	G	F	I	J	O	N	M	Q	Size of Register Boxes	Size of Collars in Foot Pieces
		Z	H	P											D	M	N	Q					
3½x10	.60	1.06	.88	1.20	.60	1.50	.76	1.04	1.66													8x12	8-9", 8, 9, 10"
																						9x12	
																						8x12	
																						9x12	
3½x12	.66	1.20	1.04	1.36	.66	1.62	.82	1.20	1.96													10x12	

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

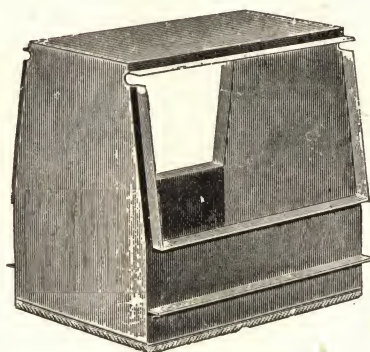
SINGLE WALL REGISTER BOXES AND FOOT PIECES



Single Header (One Room).

Size of Register	Size of Collar in Foot Pieces	Price each For No. 1 Reg. Box	Price each for cut U-Z-V-W-Y Boots
B10 8x10	8 in.	\$1.26	\$1.26
B11 9x12	9 in.	1.44	1.44
B12 10x12	10 in.	1.44	1.44
B13 10x13	10 in.	1.56	1.56
B14 12x14	12 in.	1.70	1.70

See page 53 for illustration of U-Z-V-W & Y Foot Pieces.



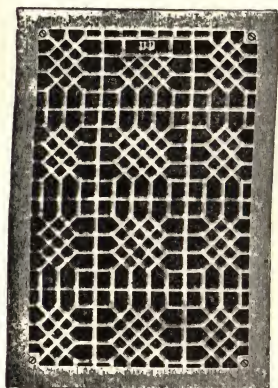
Double Header (Two Room).

Size of Register	Size of Collar in Foot Pieces	Price each For No. 2 Reg. Box	Price each for cut U-Z-V-W-Y Boots
B20 8x10	8 in.	\$1.50	\$1.50
B21 9x12	9 in.	1.68	1.68
B22 10x12	10 in.	1.68	1.68
B23 10x13	10 in.	1.80	1.80
B24 12x14	12 in.	1.96	1.96

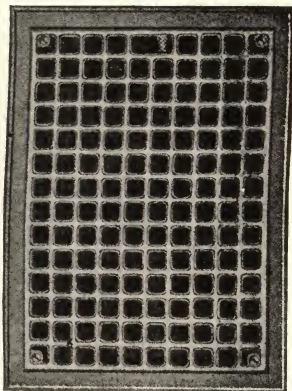
See page 53 for illustration of Foot Pieces.

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

REGISTERS, BORDERS AND FACE PLATES



Indian Lattice Design
Black and White Japanned.

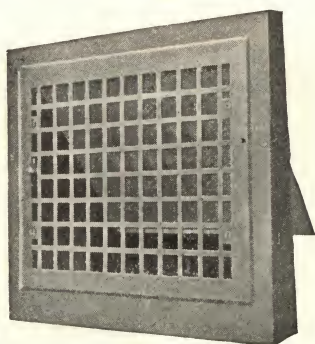


Plain Lattice Design
Hart & Cooley Steel Register.
Any Finish.

	B. J. Register	B. J. Faces	B. J. Borders	White Faces	Oxidized		Copper
					Reg.	Border	Faces
4x 9	.....	1.04	.....	1.20	.....	.....	.....
4x12	.....	1.36	.....	1.60	.....	.....	.....
6x 8	2.48	1.60	1.84	2.08	.....	.....	.....
8x10	2.64	1.76	2.00	2.32	5.04	4.40	4.16
8x12	3.04	2.08	2.40	2.72	5.84	5.20	4.88
9x12	3.36	2.32	2.64	3.04	6.40	5.68	5.36
10x12	3.84	2.72	2.80	3.52	7.04	6.00	5.92
10x14	5.04	3.52	3.52	4.56	8.40	6.88	6.88
12x14	6.96	4.48	4.48	5.84	10.96	8.56	8.56
14x18	14.40	5.40	7.20	.....	19.20	12.00	9.00
16x20	19.76	7.32	9.76	.....	26.48	16.48	12.36
16x24	24.00	8.40	11.20	.....	.....	.....	14.40
18x24	34.40	10.02	13.36	.....	.....	.....	17.52
20x24	35.20	10.32	13.76	.....	.....	.....	17.76
21x29	46.40	13.92	18.56	.....	.....	.....	26.64
24x27	54.32	16.80	22.40	30.00
24x30	60.80	20.70	27.60	35.10
27x38	89.60	30.00	40.00	54.00

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STYLE "900" BASEBOARD REGISTER With Removable Face

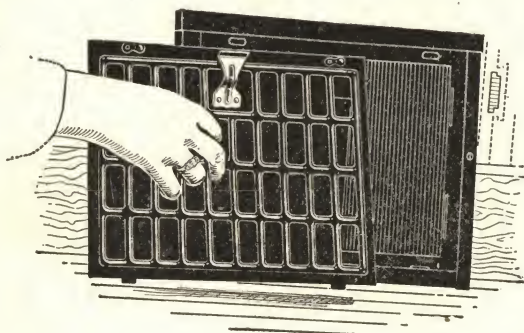


Style 900

Size of Opening	Depth of Stack Head Throat Single Header	FINISH	
		Black Japan	Oxidized Copper
8 x 10	3 $\frac{5}{8}$	\$3.20	\$5.60
9 x 12	5 $\frac{5}{8}$	4.00	6.40
10 x 12	6 $\frac{1}{8}$	5.84	8.64
10 x 13	6 $\frac{5}{8}$	6.72	9.92
12 x 14	7 $\frac{1}{8}$	9.36	12.80

A new one piece all Wrought Steel Register, with patent air-tight fastener, for quick installation, to hold the Register in place and to prevent the wall from being discolored by the heat.

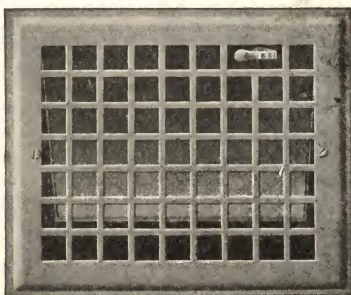
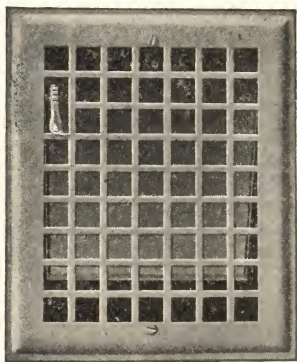
The Face has a large free air opening and the Register is designed with the proper proportion between depth, size and capacity.



		Finish	
		Black Japan	Oxidized Copper
No. 132 $\frac{1}{4}$	8 x 10, 2 $\frac{1}{4}$ deep	\$3.20	\$5.60
No. 132 $\frac{1}{4}$	9 x 12, 2 $\frac{1}{4}$ deep	4.80	7.20
No. 132 $\frac{1}{4}$	10 x 12, 2 $\frac{1}{4}$ deep	5.84	8.64
No. 133 $\frac{1}{4}$	11 x 13, 3 $\frac{1}{4}$ deep	7.20	10.80

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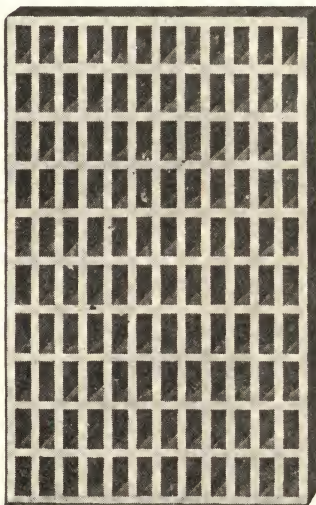
REVERSIBLE WAFER REGISTER "AS THIN AS A WAFER"



SAME REGISTER SETS EITHER WAY

PRICE		
Size of Opening	Black Japanned	Oxidized Copper
8 x 10	\$2.64	\$5.04
8x12	3.04	5.84
9 x 12	3.36	6.40
10x12	3.84	7.04

WOOD REGISTER FACES FOR COLD AIR DUCTS



SIZE	Area of air space in square inches	Nearest size of round pipe of equivalent area	Price
12x18	121	12 in.	\$1.20
12x20	135	12 in.	1.34
12x24	161	14 in.	1.60
*12x30	202	16 in.	2.00
12x40	269	18 in.	2.68
12x50	336	20 in.	3.34
12x60	403	22 in.	4.00
*14x20	157	14 in.	1.56
14x22	173	14 in.	1.72
14x24	188	16 in.	1.86
14x30	235	18 in.	2.32
14x40	314	20 in.	3.12
14x50	392	22 in.	3.90
14x60	470	24 in.	4.68
*16x20	179	14 in.	1.78
*16x24	215	16 in.	2.14
*16x30	269	18 in.	2.68
*18x24	242	18 in.	2.40
*18x30	303	20 in.	3.00
*20x24	269	18 in.	2.68
*20x28	314	20 in.	3.12
*20x30	336	20 in.	3.34
22x28	345	22 in.	3.44
24x24	323	20 in.	3.20
*24x30	403	22 in.	4.00
24x36	484	24 in.	4.80
26x30	437	24 in.	4.34
28x30	471	24 in.	4.68
30x30	504	26 in.	5.00
30x36	605	28 in.	6.00

Other sizes will be made to order.

*Sizes carried in stock.

Made of oak strips $\frac{3}{4}$ inch thick by $1\frac{1}{4}$ inches in width, into which cross strips $\frac{3}{4}$ of an inch square are glued in grooves made to receive them, making top of face even. The meshes are $1\frac{1}{4}$ inch square.

The opening should not be cut until face is received.

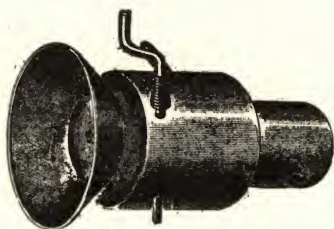
All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.



SPEAKING TUBE WHISTLES AND TRIMMINGS

Flexible Tubes With Nickel Plated
Whistles. Made in Any
Length Wanted

No. 92	18 inches long.....	each	\$3.50
No. 93	24 inches long.....	each	4.00
No. 94	30 inches long.....	each	4.80
No. 95	36 inches long.....	each	5.50
No. 96	48 inches long.....	each	6.80



SPEAKING TUBES AND WHISTLES

1 inch Flexible Speaking Tube, per foot.....	\$0.70
1 inch Speaking Tubes, tin, per foot.....	.06
1 inch Stamped Elbow, per doz.....	1.50
No. 158, Whistle with indicator, each.....	.70
Japanned body, per dozen.....	7.50
No. 158½ Whistle with indicator, each.....	.90
Nicked plated, per doz.....	10.00

NICKELED FLANGE COLLARS

For Protecting End of Tubing and Attaching
to Wall

No. 81	1 inch, per dozen.....	\$9.00
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NICKELED COLLARS

For Protecting End of Tubing and At-
taching to Whistle

No. 79	1 inch, per dozen.....	\$4.50
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GALVANIZED TUBING

Made in 10 Foot Lengths, Galvanized After Formed.
Absolutely Airtight.

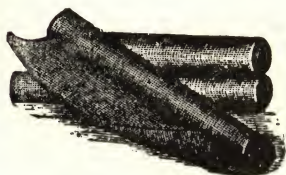
Used extensively for gasoline and acetylene lighting plants.

1½ inch Pipe, per foot.....	\$.16
1½ inch Elbows, each .....	.30
1½ inch Tees, each .....	.40

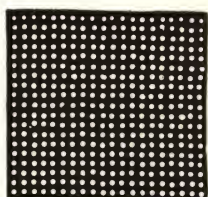
All prices are F. O. B. Grand Rapids, unless otherwise specified, and
are subject to change without notice.

BRASS STRAINER CLOTH

Five Square Feet in Roll

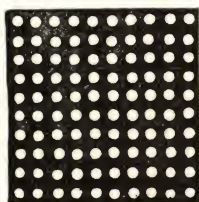


Mesh	Width	Per sq. ft	Per roll
16	28	\$1.00	-----
20	24	1.00	-----
40	12	1.00	\$2.40
50	12	1.00	2.60
60	12	1.00	3.00
80	12	2.00	8.50



PERFORATED TIN

No.	1	2	3	4	5
Perforations					
to the inch.....	20	18	15	13	11
112—14x20 sheets in box, per					
sheet					\$0.42



PERFORATED BRASS

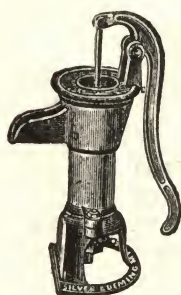
No. 26 Brown & Sharpe Gauge
in Rolls 12 Inches Wide,
50 Feet Long

No.	Perforations Per Inch	Sq. Ft.
5	12	1.00
6	9	1.00
7	7½	1.00



CREAM CAN GAUGES

4 inch Mica Gauges, per dozen.....	\$3.00
6 inch Mica Gauges, per dozen.....	3.50
6 inch Glass Gauges, per dozen.....	3.70
8 inch Glass Gauges, per dozen.....	7.00

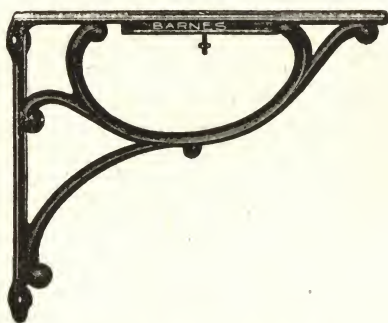


IMPROVED CLOSE-TOP PITCHER SPOUT PUMP

With Adjustable Lever and Cut-off Base

No.	Size Cylinder	Size Pipe	Stroke	Weight	Price
1	2½	1	4	21	\$4.68
2	3	1¼	4	24	5.20
3	3½	1¼	4	28	5.78

Brass Tail Pieces, each.....\$0.60

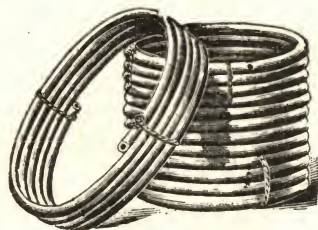


SINK BRACKETS

These Brackets are slotted
to fit any sink up to 20 in.
wide.

Painter, per pair\$1.80

LEAD PIPE—Weight per Foot



Size, inches	1		1¼		1½	
	Lbs.	Oz.	Lbs.	Oz.	Lbs.	Oz.
Extra Light	2	0	2	8	3	8
Light	2	8	3	0	4	0
Medium	3	4	3	12	5	0
Strong	4	0	4	12	6	0

Extra Light Lead Pipe always in stock. Market price.

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LEAD TRAPS

Full S Traps, size
1½ inches, each
market price.

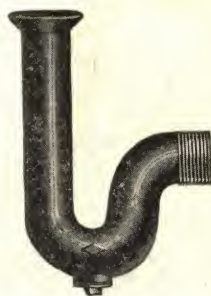
Full S. Traps, Long
1¼ inches, each
market price.

Cast Iron Trap,
size 1¼ inches,
each

Cast Iron Trap,
size 1¼ inches,
long, each



Full S



VALVE AND PLUNGER LEATHERS

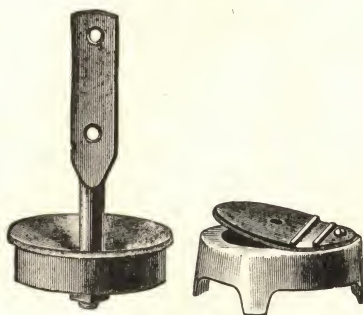


For Pitcher Spout Pumps	No.	1	2	3
Diameter Cylinder, inches,		2½	3	3½
Valve Leathers, per dozen.....		\$2.00	\$2.20	\$2.80
Flat Plunger Leathers, per dozen.....		2.00	2.20	2.80

Cup Plunger Leathers, per dozen

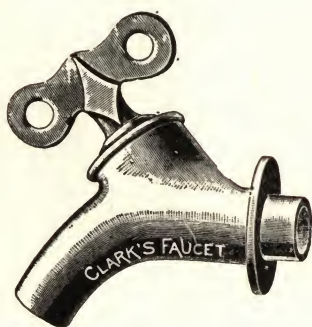
1½"	1¾"	2"	2½"	3"	3½"
\$1.40	\$1.80	\$1.90	\$2.70	\$3.40	\$4.00

OIL AND LIQUOR PUMP VALVES AND PLUNGERS



Size, inches,	1	1½	2	3	4
Per dozen pairs.....	\$6.00	\$7.00	\$9.00	\$17.00	\$24.00

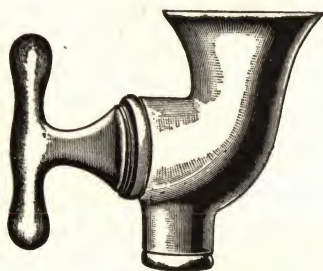
All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.



ANGLE PLUGS

For Oil Cans, Etc.
Made of White Metal
Will Not Rust

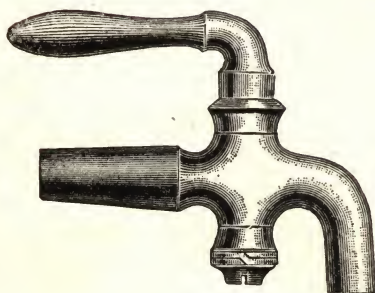
$\frac{3}{8}$ inch, per dozen.....	\$4.00
$\frac{1}{2}$ inch, per dozen.....	5.00



EUREKA CREAM FAUCETS

For Cream Separators
Milk Cans, Etc.
Solders on Bottom of
Can

$\frac{1}{2}$ inch Brass, Nickerled per dozen	\$12.00
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PLAIN BIBBS Lever Handle For Lead Pipe

Size	Brass Finish
$\frac{3}{8}$ inch, per dozen.....	\$18.00
$\frac{1}{2}$ inch, per dozen.....	19.00
$\frac{5}{8}$ inch, per dozen.....	26.00
$\frac{3}{4}$ inch, per dozen.....	32.00

TIN, CORK LINED-DEEP CAN SCREWSPut up $\frac{1}{2}$ Gross in Box

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Per Gross	\$5.50	\$6.00	\$8.00	\$9.50	\$15.00
Per Dozen .....	.56	.60	.80	.96	1.50

ZINC-DEEP CAN SCREWSPut up $\frac{1}{2}$ Gross in Box

Sizes, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Per Gross	\$10.00	\$12.00	\$17.00	\$24.00
Per Dozen	1.00	1.20	1.70	2.40

ZINC-SHALLOW CAN SCREWS

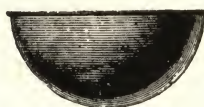
Size, inches	3	4
Per dozen	\$4.00	\$5.50

OIL AND GASOLINE CAN SPOUTS

No. 1, Length $2\frac{3}{4}$ inches, per dozen.....	\$1.20
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SPRINKLER HEAD-ZINC FACE

Nos.	0	1	2
Size, inches	$2\frac{1}{4}$	3	$3\frac{1}{2}$
Per dozen	\$2.00	\$2.20	\$2.60

ZINC HALF BALLS

Sizes, inches	1	2	3	4	5	6
Each	\$.08	\$.12	\$.20	\$.32	\$.50	\$.64
Sizes, inches	8	10	12	14	16	
Each	\$1.20	\$1.92	\$2.88	\$4.60	\$7.20	

**TEA KETTLE EARS**

Nickle Plated, per dozen.....\$2.00

NO. 3510 RE-TINNED KETTLE EARS**Malleable**

Style	Size	Per Dozen	Per Gross
A	$\frac{7}{8} \times 1\frac{1}{8}$	.....\$0.20	\$2.00
B	$1\frac{1}{8} \times 1\frac{1}{4}$	......32	3.20
C	$1\frac{1}{4} \times 1\frac{3}{8}$	......40	4.00
D	$1\frac{1}{8} \times 1\frac{1}{2}$	......50	5.00
E	$1\frac{5}{8} \times 1\frac{3}{4}$	......70	7.00
F	$1\frac{3}{4} \times 1\frac{7}{8}$	......85	8.50

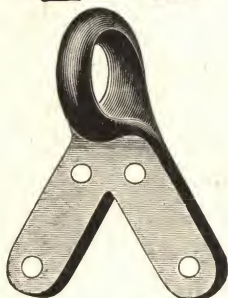
**NO. 3515 RE-TINNED KETTLE EAR—Heavy Pattern****Malleable**

Style	Size	Per doz.
H	$1\frac{1}{2} \times 2$	.....\$1.00
K	$2 \times 2\frac{5}{8}$	.....1.20
L	$2\frac{1}{4} \times 2\frac{3}{4}$	.....1.50

**TINNED FORKED EARS****Malleable**

Style M, per dozen.....	\$1.80
Style M, per gross.....	19.00

For heavy Well Buckets and similar articles.

**BLACK ENAMELED PAIL WOODS**

	$3\frac{1}{2}$ "	4"
Per gross	\$4.50	\$5.00
Less than $\frac{1}{2}$ gross.....	5.00	5.50

**LID HANDLES**

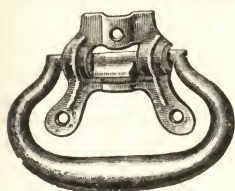
	Per Doz.	Per Gross
3 inch tinned.....	\$1.00	\$10.80
$3\frac{1}{2}$ inch tinned.....	1.60	16.00
5 inch tinned.....	1.80	20.00

**GROOVED BOILER HANDLES**

3 inch Coppered, per dozen.....	\$0.80
$3\frac{1}{2}$ inch Coppered, per dozen.....	1.00

**OVEN DOOR TURN BUCKLES**

Oven Turn Buckles, Tinned, per dozen\$1.00

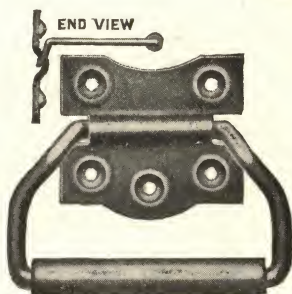


DROP BOILER HANDLES

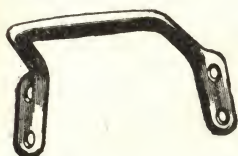
3½ inch Tinned, per dozen.....\$2.40

HEAVY GALVANIZED HANDLE

No. 107, per dozen.....\$2.50



OVAL LID HANDLE—Tinned
4½ inch, per dozen.....\$3.80



ASH CAN HANDLE—Tinned

3½ inch, per dozen.....\$2.50

ENAMEL TEA POT KNOBS

7⁄8x¾ inches, per 100\$3.00

Put up 100 in package.

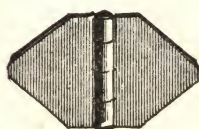


No. 50½

ENAMELED WOOD HANDLES

For Tea and Coffee Pot

No. 50½. Medium Size, both ears for
soldering, per dozen.....\$3.50

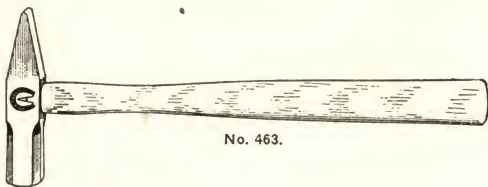


TEA POT HINGE

Plain, with Brass Rivet

Size ¾x1¼ inch double, nickel plated,
per dozen\$1.20

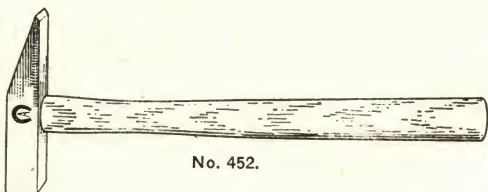
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No. 463.

TINNERS RIVETING HAMMERS

Number	461	462	463	464	465
Size Face	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Price, each	\$1.70	\$1.80	\$1.90	\$2.00	\$2.20



No. 452.

TINNERS PANEING OR SETTING HAMMERS

Number	451	452	453	454
Size Face	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$
Price, each	\$1.70	\$1.80	\$1.90	\$2.00



TINNERS MALLETS

Best Seasoned Hickory

Inches,	2	$2\frac{1}{2}$	3
Per dozen	\$6.00	\$9.00	\$11.00

SOLDERING-COPPER
HANDLES

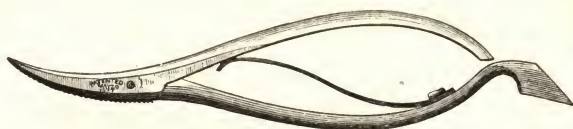
Per Dozen\$1.00

SOLDERING COPPERS



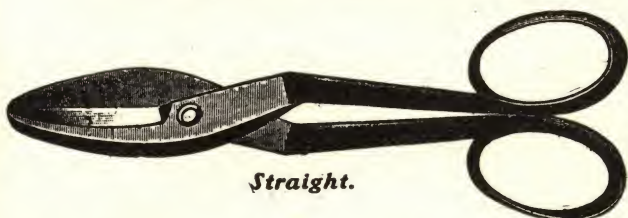
Weight, Per Pair in Pounds.....	2	3	4	5	6	8
Price Per Pound	Market Price.					

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.



Sardine Shears, each.....\$2.40

SNIPS OR HAND SHEARS—Forged



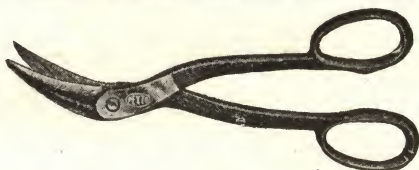
Straight.

These snips are drop-forged of steel, and the jaws are laid with high grade cast steel, properly hardened. The finish is strictly first-class.

Nos.	7	8	9	10	11	12
Will Cut	4 in.	3½ in.	3 in.	2½ in.	2 in.	1½ in.
Wiss Circular Snips, each		\$7.20	\$6.60	\$6.20		
Wiss Straight Snips, each, \$6.20	4.80	4.30	3.90	2.90	2.40	

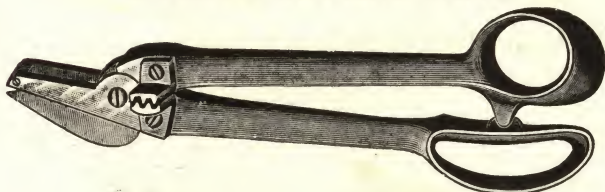
No. 17 Buffalo Snips, 4-inch cut, net weight 43 ounces.....	\$6.60
No. 18 Buffalo Snips, 3½-inch cut, net weight 32 ounces.....	5.50
No. 19 Buffalo Snips, 3-inch cut, net weight 23 ounces.....	4.90
No. 111 Household Snip	2.00

HAWK'S BILL COMBINATION SCROLL SHEAR



Each\$6.50

DOUBLE CUTTING SNIPS



No. 2, Double Cutting Snips with Crimper.

No. 2, with Crimper attached, per pair.....	\$6.00
No. 3, without Crimper, per pair.....	5.50
No. 1, for cutting Tin or Light Metal Pipe, per pair.....	4.50

Snips for left-handed workmen can be furnished at small extra cost.

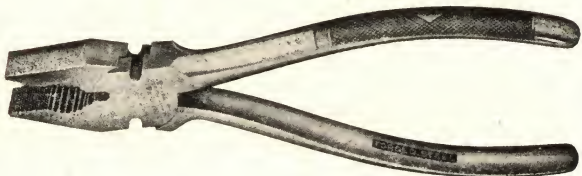
All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

REVERSIBLE NIPPERS



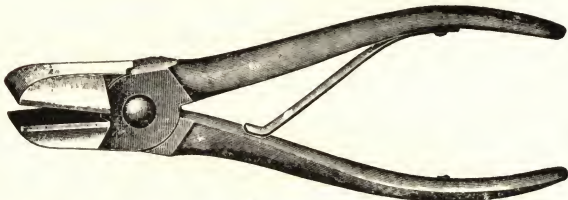
Length, Inches,	10	12
Will cut wire—inches,	$\frac{3}{8}$	$\frac{1}{4}$
Each	\$4.00	\$4.50

COMBINATION PLIERS



Combination Pliers, each	\$2.20
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SEAMING PLIERS



Seaming Pliers. Each	\$3.20
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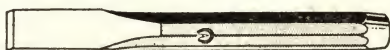
SOLID PUNCHES



Made of fine steel, properly tempered.			
Size, inches	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{4}$
Punches, each	\$.40	\$.40	\$.40
Prick Punches	30 cents each		

All prices are F. O. B. Grand Rapids, unless otherwise specified, and are subject to change without notice.

COLD CHISELS
Made From a High Grade Forged Steel



Size, inches	$\frac{1}{2} \times 6$	$\frac{5}{8} \times 7$	$\frac{3}{4} \times 8$
Price, each	\$0.50	\$0.60	\$0.80

LANTERN CHISELS



Lantern Chisels, each 40 cents

WIRE CHISELS



Wire Chisels, size $\frac{3}{4}$ inch, each.....	\$0.40
Wire Chisels, size 1 inch, each.....	.50

SCRATCH AWL



All Steel \$.40



Wood Socket50

HOLLOW PUNCHES



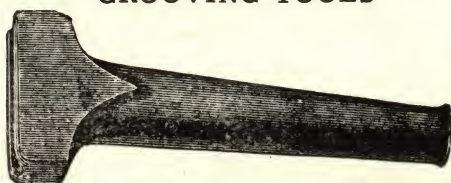
Size, In.	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3
Ea.	\$.76	1.50	2.26	2.64	3.00	3.75	4.50	5.25	6.00	6.75	7.50	9.00

RIVET SETS AND HEADERS



Nos.	00	0	1	2	3	4	5	6
Size of hole.....	5-16	9-32	$\frac{1}{4}$	7-32	3-16	11-64	5-32	9-64
For Iron Rivet....	14	10&12	8	6	4&5	$2\frac{1}{2}$ &3	$1\frac{3}{4}$ &2	$1\frac{1}{2}$
Rivet Sets, Headers, each	\$1.60	\$1.60	1.30	1.30	1.10	1.10	.80	.80

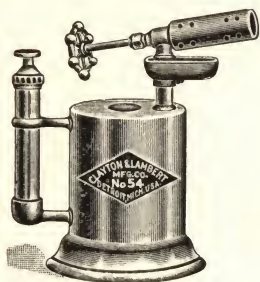
GROOVING TOOLS



Nos..	00	0	1	2	3	4	5	6
Sizes	$\frac{1}{2}$	7-16	$\frac{3}{8}$	5-16	$\frac{1}{4}$	7-32	3-16	5-32
Grooving Tools, each	\$2.10	2.10	1.90	1.90	1.80	1.80	1.80	1.80

THE NEW RELIABLE TINNER'S FIRE POT GASOLINE FIRE POTS AND TORCHES

No. 120 TORCH (Quart Size)
Old No. 54



To meet the demand for a cheap quart size torch, we offer our No. 54, which is fitted with attachment for holding soldering coppers, without extra charge. This is not nearly as powerful a torch as our Nos. 31 and 32 but is made strong and guaranteed to give better results than any similar Torch on the market. The

pump has check valve which closes off the air automatically after each stroke of the plunger.

Shipping weight each, 5 $\frac{3}{4}$ lbs.

Price, polished brass, each\$13.00

THE NO. 31 TORCH

Has no equal where intense heat is desired, especially for work in the wind. It is well made. The tank holds one quart and is fitted with our best pump. The burner is a powerful generator, producing a strong blast, consuming little gasoline.

Price, Polished Brass.....\$14.60



THE NO. 32 TORCH

Is exactly like the No. 31 except that it is fitted with hook and support for holding soldering coppers. The users of torches who may have occasion to use soldering coppers will appreciate this point.

Price, Polished Brass.....\$15.40



No Tinner or Plumber Should be Without It

The Reliable is an automatic air pressure Fire Pot and produces a very powerful blue flame. It is fitted with the new reliable air pump in place of the old style rubber bulb, and is equally valuable for shop and outside work.

No. 196 Reliable
Fire Pot, each
complete\$14.00



SLATERS' TOOLS



Ripper.

The Hammers are forged from one solid piece of steel, finely polished and tempered, and the Ripper blade is cut from tool steel.



Hammer.

Slaters' Rippers, Weight, $2\frac{1}{2}$ lbs, each\$4.00

Slaters' Hammers, Weight, $1\frac{1}{2}$ lbs, each 5.60

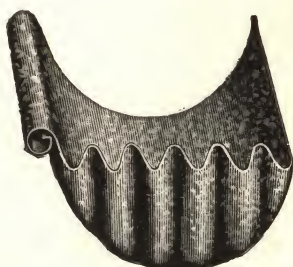
Slaters' Stake, not graduated, Weight $2\frac{1}{2}$ lbs., each..... 2.40



Stake.



Patented Jan. 25, 1898
The Tool.



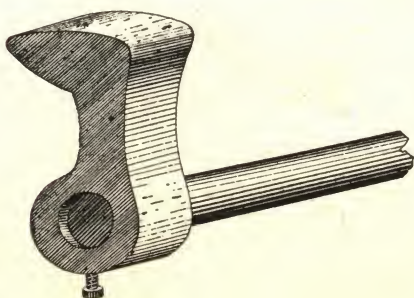
The Work.

BISHOP'S QUICK WORKING FORMS

For Closing End of Eaves Trough in Corrugations as shown Herewith.

$3\frac{1}{2}$ inch, each	\$1.00
4 inch, each	1.20
$4\frac{1}{2}$ inch, each	1.30
5 inch, each	1.50
6 inch, each	2.00

INSTRUCTIONS—Cut end of trough on about a half circle, cutting bead a little short with a hack saw. Place sloping end of form in gutter about even with end. Start iron into grooves; then reverse form and set up the iron into grooves on right angle end with a dull pean hammer. Start all the grooves a little before setting them down, commencing with the outside ones.

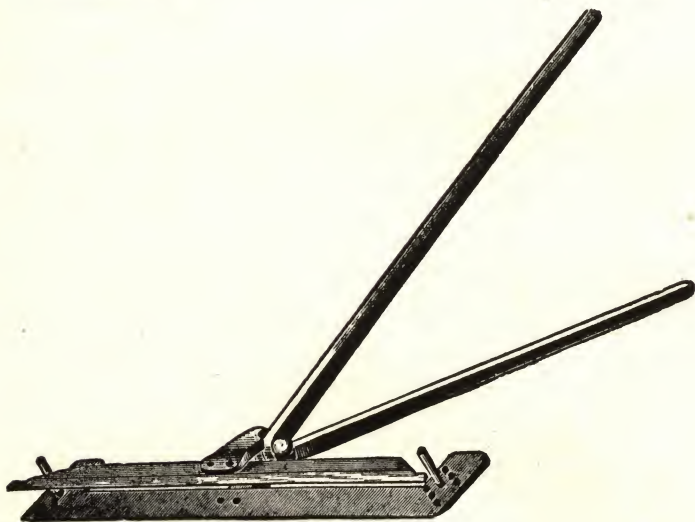
TEA KETTLE
STAKE

Each\$4.00

ROOFING TONGS



Gutter Tongs.

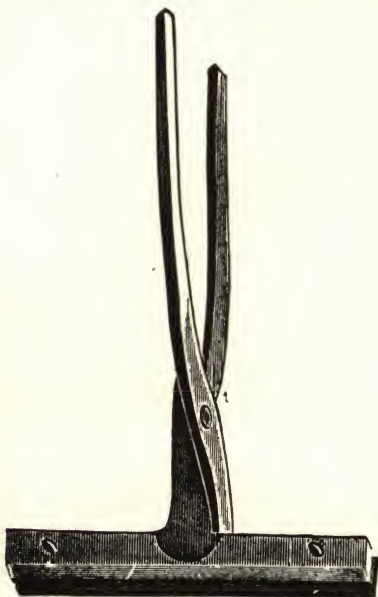
Deep Throat
Roofing Tongs

Adjustable Roofing Tongs.

PRICE

Adjustable Roofing Tongs, adjusts from $\frac{1}{2}$ to 2 inches by $\frac{1}{4}$ inches, per pair	\$11.00
Gutter Tongs, length of blades 14 inches, depth of throat 12 inches, per pair	11.00
Deep Throat Roofing Tongs, adjusts from $\frac{1}{2}$ to 10 inches, varying by $\frac{1}{2}$ inch, per pair.....	16.00

ROOFING TONGS



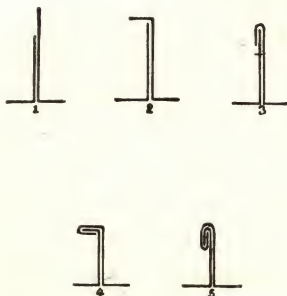
Roofing Tongs.



Squeezing Tongs.



Double Seamers.



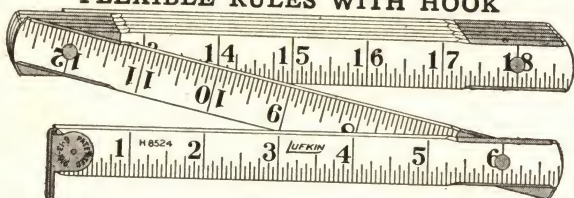
Showing Operations Necessary to
Make Double Seam Roofing.

PRICE.

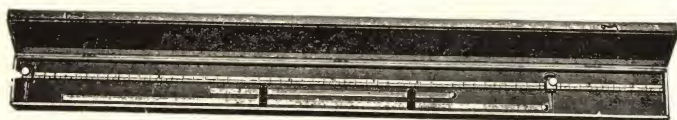
Squeezing Tongs, per pair.....	\$ 4.00
Burritt's Roofing Double Seam- ers Improved (for galvanized iron) per set two pair.....	40.00
Roofing Tongs	8.00

All prices are F. O. B. Grand Rapids, unless otherwise specified, and
are subject to change without notice.

FLEXIBLE RULES WITH HOOK

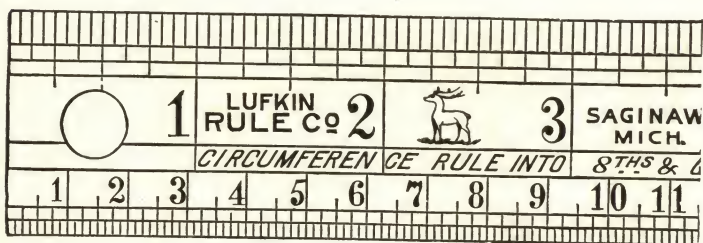


4 feet, each	.....	\$0.80
5 feet, each	.....	1.00
6 feet, each	.....	1.10



THE MAGIC PATTERN RULE.

This is the greatest labor saving tool ever invented in the interest of Tinnerns and Steel Metal Workers. It consists of a nickel plated steel bar, 4 feet long, 7-16 inch square marked in circumference inches on front, and in inches and eights on back and two slides with trammel points attached. Also magic pattern chart, all packed in neat wooden case with hinged cover. Each \$16.00. Magic Chart only \$2.00.



TINNERS' STEEL CIRCUMFERENCE RULE.

This Rule is a very useful tool, one side (as shown above) for obtaining circumference of circles by simply measuring the diameters. The opposite has table measurements as follows: Flaring Liquid Measure, Flaring and Straight Dry Measure and Flat and Pitched Top Can.

Length feet	.....	3
Plain, each	.....	\$5.50
Nickel Plated, each	.....	6.00

BLAST GATES AND BLOW PIPE CUT-OFFS.

Cast Iron with Sheet Steel Slide.



3 inch, each	.....	\$0.90
4 inch, each	.....	1.20
5 inch, each	.....	1.50
6 inch, each	.....	1.80
7 inch, each	.....	2.10
8 inch, each	.....	2.40

CAPACITY OF ROUND TANKS—Per 1 Foot High

Diameter of	Tanks No. U. S. Gallons	Cubic Ft. and Area in Sq. Ft.	Diameter of Tanks	No. U. S. Gallons	Cubic Ft. in Sq. Ft.
1 ft.	5.87	.785	11 ft. 9 in.	811.14	108.8
1 ft. 1 in.	6.89	.922	12 ft.	846.04	113.5
1 ft. 2 in.	8.	1.069	12 ft. 3 in.	881.65	117.1
1 ft. 3 in.	9.18	1.227	12 ft. 6 in.	918.	122.1
1 ft. 4 in.	10.44	1.396	12 ft. 9 in.	955.09	127.6
1 ft. 5 in.	11.79	1.576	13 ft.	992.91	132.7
1 ft. 6 in.	13.22	1.767	13 ft. 3 in.	1031.50	137.8
1 ft. 7 in.	14.73	1.969	13 ft. 6 in.	1070.80	143.1
1 ft. 8 in.	16.32	2.182	13 ft. 9 in.	1110.80	148.48
1 ft. 9 in.	17.99	2.405	14 ft.	1151.50	153.94
1 ft. 10 in.	19.75	2.640	14 ft. 3 in.	1193.	159.48
1 ft. 11 in.	21.58	2.885	14 ft. 6 in.	1235.30	165.13
2 ft.	23.50	3.142	14 ft. 9 in.	1278.20	170.87
2 ft. 1 in.	25.50	3.409	15 ft.	1321.90	176.71
2 ft. 2 in.	27.58	3.687	15 ft. 3 in.	1366.40	182.65
2 ft. 3 in.	29.74	3.976	15 ft. 6 in.	1411.50	188.69
2 ft. 4 in.	31.99	4.276	15 ft. 9 in.	1457.40	194.84
2 ft. 5 in.	34.31	4.587	16 ft.	1504.10	201.06
2 ft. 6 in.	36.72	4.909	16 ft. 3 in.	1551.40	207.29
2 ft. 7 in.	39.21	5.241	16 ft. 6 in.	1599.50	213.82
2 ft. 8 in.	41.78	5.585	16 ft. 9 in.	1648.40	220.35
2 ft. 9 in.	44.43	5.940	17 ft.	1697.90	226.98
2 ft. 10 in.	47.16	6.305	17 ft. 3 in.	1748.20	233.71
2 ft. 11 in.	49.98	6.681	17 ft. 6 in.	1799.30	240.53
3 ft.	52.88	7.069	17 ft. 9 in.	1851.10	247.45
3 ft. 1 in.	55.86	7.467	18 ft.	1903.60	254.47
3 ft. 2 in.	58.92	7.876	18 ft. 3 in.	1956.80	261.59
3 ft. 3 in.	62.06	8.296	18 ft. 6 in.	2010.80	268.80
3 ft. 4 in.	65.28	8.727	18 ft. 9 in.	2065.50	276.12
3 ft. 5 in.	68.58	9.168	19 ft.	2120.90	283.53
3 ft. 6 in.	71.97	9.621	19 ft. 3 in.	2177.10	291.04
3 ft. 7 in.	75.44	10.085	19 ft. 6 in.	2234.	298.65
3 ft. 8 in.	78.99	10.559	19 ft. 9 in.	2291.70	306.35
3 ft. 9 in.	82.62	11.045	20 ft.	2350.10	314.16
3 ft. 10 in.	86.33	11.541	20 ft. 3 in.	2409.20	322.06
3 ft. 11 in.	90.13	12.048	20 ft. 6 in.	2469.10	330.06
4 ft.	94.	12.566	20 ft. 9 in.	2529.60	338.16
4 ft. 1 in.	97.96	13.095	21 ft.	2591.	346.36
4 ft. 2 in.	102.	13.635	21 ft. 3 in.	2653.	354.66
4 ft. 3 in.	106.12	14.186	21 ft. 6 in.	2715.80	363.05
4 ft. 4 in.	110.32	14.748	21 ft. 9 in.	2779.30	371.54
4 ft. 5 in.	114.61	15.321	22 ft.	2843.60	380.13
4 ft. 6 in.	118.97	15.90	22 ft. 3 in.	2908.60	388.82
4 ft. 7 in.	123.42	16.50	22 ft. 6 in.	2974.30	397.61
4 ft. 8 in.	127.95	17.10	22 ft. 9 in.	3040.80	406.49
4 ft. 9 in.	132.56	17.72	23 ft.	3108.	415.48
4 ft. 10 in.	137.25	18.35	23 ft. 3 in.	3175.90	424.56
4 ft. 11 in.	142.02	18.99	23 ft. 6 in.	3244.60	433.74
5 ft.	146.88	19.63	23 ft. 9 in.	3314.	443.01
5 ft. 1 in.	151.82	20.29	24 ft.	3384.10	452.39
5 ft. 2 in.	156.83	20.97	24 ft. 3 in.	3455.	461.86
5 ft. 3 in.	161.93	21.65	24 ft. 6 in.	3526.60	471.44
5 ft. 4 in.	167.12	22.34	24 ft. 9 in.	3598.90	481.11
5 ft. 5 in.	172.38	23.04	25 ft.	3672.	490.87
5 ft. 6 in.	177.72	23.76	25 ft. 3 in.	3745.80	500.74
5 ft. 7 in.	183.15	24.48	25 ft. 6 in.	3820.30	510.71
5 ft. 8 in.	188.66	25.22	25 ft. 9 in.	3895.60	520.77
5 ft. 9 in.	194.25	25.97	26 ft.	3971.60	530.63
5 ft. 10 in.	199.92	26.73	26 ft. 3 in.	4048.40	541.19
5 ft. 11 in.	205.67	27.49	26 ft. 6 in.	4125.90	551.55
6 ft.	211.51	28.27	26 ft. 9 in.	4204.10	562.
6 ft. 1 in.	217.44	29.06	27 ft.	4283.	572.66
6 ft. 2 in.	223.48	29.86	27 ft. 3 in.	4362.70	583.21
6 ft. 3 in.	229.69	30.68	27 ft. 6 in.	4443.10	593.96
6 ft. 4 in.	235.98	31.51	27 ft. 9 in.	4524.30	604.81
6 ft. 5 in.	242.35	32.35	28 ft.	4606.20	615.75
6 ft. 6 in.	248.80	33.20	28 ft. 3 in.	4688.80	626.80
6 ft. 7 in.	255.32	34.06	28 ft. 6 in.	4772.10	637.94
6 ft. 8 in.	261.92	34.93	28 ft. 9 in.	4856.20	649.18
6 ft. 9 in.	268.59	35.81	29 ft.	4941.	660.52
6 ft. 10 in.	275.33	36.70	29 ft. 3 in.	5026.60	671.96
6 ft. 11 in.	282.14	37.60	29 ft. 6 in.	5112.90	683.49
7 ft.	289.02	38.51	29 ft. 9 in.	5199.90	695.13
7 ft. 1 in.	296.07	39.43	30 ft.	5287.70	706.86
7 ft. 2 in.	303.28	40.36	30 ft. 3 in.	5376.20	718.69
7 ft. 3 in.	310.56	41.30	30 ft. 6 in.	5465.40	730.62
7 ft. 4 in.	317.91	42.25	30 ft. 9 in.	5555.40	742.64
7 ft. 5 in.	325.32	43.21	31 ft.	5646.10	754.77
7 ft. 6 in.	332.80	44.18	31 ft. 3 in.	5737.50	767.99
7 ft. 7 in.	340.35	45.16	31 ft. 6 in.	5829.70	779.31
7 ft. 8 in.	347.96	46.15	31 ft. 9 in.	5922.60	791.73
7 ft. 9 in.	355.64	47.15	32 ft.	6016.20	804.25
7 ft. 10 in.	363.38	48.16	32 ft. 3 in.	6110.60	816.86
7 ft. 11 in.	371.18	49.18			
8 ft.	379.04	50.20			
8 ft. 1 in.	386.97	51.23			
8 ft. 2 in.	394.96	52.27			
8 ft. 3 in.	402.99	53.32			
8 ft. 4 in.	410.98	54.38			
8 ft. 5 in.	418.99	55.44			
8 ft. 6 in.	426.99	56.51			
8 ft. 7 in.	434.99	57.58			
8 ft. 8 in.	442.99	58.66			
8 ft. 9 in.	450.99	59.74			
8 ft. 10 in.	458.99	60.83			
8 ft. 11 in.	466.99	61.92			
9 ft.	475.00	63.02			
9 ft. 1 in.	483.00	64.12			
9 ft. 2 in.	491.00	65.23			
9 ft. 3 in.	499.00	66.34			
9 ft. 4 in.	507.00	67.45			
9 ft. 5 in.	515.00	68.56			
9 ft. 6 in.	523.00	69.67			
9 ft. 7 in.	531.00	70.79			
9 ft. 8 in.	539.00	71.91			
9 ft. 9 in.	547.00	73.03			
9 ft. 10 in.	555.00	74.15			
9 ft. 11 in.	563.00	75.27			
10 ft.	571.00	76.40			
10 ft. 1 in.	579.00	77.53			
10 ft. 2 in.	587.00	78.66			
10 ft. 3 in.	595.00	79.79			
10 ft. 4 in.	603.00	80.92			
10 ft. 5 in.	611.00	82.05			
10 ft. 6 in.	619.00	83.18			
10 ft. 7 in.	627.00	84.31			
10 ft. 8 in.	635.00	85.44			
10 ft. 9 in.	643.00	86.57			
10 ft. 10 in.	651.00	87.70			
10 ft. 11 in.	659.00	88.83			
11 ft.	667.00	89.96			
11 ft. 1 in.	675.00	91.09			
11 ft. 2 in.	683.00	92.22			
11 ft. 3 in.	691.00	93.35			
11 ft. 4 in.	699.00	94.48			
11 ft. 5 in.	707.00	95.61			
11 ft. 6 in.	715.00	96.74			
11 ft. 7 in.	723.00	97.87			
11 ft. 8 in.	731.00	99.00			
11 ft. 9 in.	739.00	100.13			
11 ft. 10 in.	747.00	101.26			
11 ft. 11 in.	755.00	102.39			

CAPACITY OF ROUND PIPE

The following Tables gives the estimated capacity of Pipes:

Diameter in Pipe in Inches	Area in Square Inches	Diameter of Pipe in Inches	Area in Square Inches
7	38	18	254
8	50	20	314
9	63	22	380
10	78	24	452
11	95	26	531
12	113	28	616
14	154	30	707
16	201		

CAPACITY AND DIMENSIONS OF REGISTERS

REGISTERS			BORDERS	
Size Inches	Extreme Dimensions Inches	Capacity in Square Inches	Floor Opening	Size Tin Box
6x 8	7 $\frac{1}{8}$ x 9 $\frac{1}{8}$	32	9 $\frac{1}{8}$ x11 $\frac{1}{8}$	6 $\frac{1}{8}$ x 8 $\frac{1}{8}$
8x10	9 $\frac{3}{4}$ x11 $\frac{3}{4}$	53	11 $\frac{7}{8}$ x13 $\frac{7}{8}$	8 $\frac{5}{8}$ x10 $\frac{5}{8}$
8x12	9 $\frac{3}{4}$ x13 $\frac{3}{4}$	64	11 $\frac{7}{8}$ x15 $\frac{7}{8}$	8 $\frac{5}{8}$ x12 $\frac{5}{8}$
9x12	10 $\frac{7}{8}$ x13 $\frac{7}{8}$	72	13 $\frac{1}{2}$ x16 $\frac{1}{2}$	9 $\frac{1}{8}$ x12 $\frac{1}{8}$
10x12	11 $\frac{1}{8}$ x13 $\frac{1}{8}$	80	14 $\frac{1}{8}$ x16 $\frac{1}{8}$	10 $\frac{1}{8}$ x12 $\frac{1}{8}$
10x14	11 $\frac{1}{8}$ x15 $\frac{1}{8}$	93	14 $\frac{1}{8}$ x18 $\frac{1}{8}$	10 $\frac{1}{8}$ x14 $\frac{1}{8}$
12x15	14 $\frac{1}{2}$ x17	120	16 $\frac{1}{2}$ x19 $\frac{1}{2}$	12 $\frac{3}{4}$ x15 $\frac{3}{4}$
14x18	16 $\frac{1}{4}$ x20 $\frac{1}{4}$	168	18 $\frac{1}{8}$ x22 $\frac{1}{8}$	14 $\frac{7}{8}$ x18 $\frac{7}{8}$
16x20	18 $\frac{1}{8}$ x22 $\frac{1}{8}$	213	20 $\frac{7}{8}$ x24 $\frac{7}{8}$	16 $\frac{7}{8}$ x20 $\frac{7}{8}$
16x24	18 $\frac{1}{8}$ x26 $\frac{1}{8}$	255	20 $\frac{7}{8}$ x28 $\frac{7}{8}$	16 $\frac{7}{8}$ x24 $\frac{7}{8}$
18x24	20 $\frac{1}{8}$ x26 $\frac{1}{8}$	288	22 $\frac{1}{8}$ x28 $\frac{1}{8}$	18 $\frac{7}{8}$ x24 $\frac{7}{8}$
20x24	22 $\frac{3}{8}$ x26 $\frac{3}{8}$	320	25 $\frac{1}{8}$ x29 $\frac{1}{8}$	20 $\frac{1}{8}$ x24 $\frac{1}{8}$
21x29	23 $\frac{3}{8}$ x31 $\frac{3}{8}$	406	26 $\frac{1}{2}$ x34 $\frac{1}{8}$	21 $\frac{1}{8}$ x29 $\frac{1}{8}$
24x27	26 $\frac{3}{8}$ x29 $\frac{3}{8}$	432	29 $\frac{1}{2}$ x32 $\frac{1}{2}$	24 $\frac{1}{8}$ x27 $\frac{1}{8}$
27x38	29 $\frac{3}{8}$ x40 $\frac{3}{8}$	684	32 $\frac{1}{2}$ x43 $\frac{1}{2}$	27 $\frac{1}{8}$ x38 $\frac{1}{8}$

CAPACITY OF ROUND REGISTERS

Size of Register	Capacity in Square Inches	Size of Register	Capacity in Square Inches
16	134	24	301
18	169	30	471
20	209	36	679

We have installed a new press room and have a complete line of Metal Ceilings. All new dies in original and exclusive designs. Write for our Metal Ceiling Catalog. Let us figure with you on your requirements.

USEFUL INFORMATION

To find circumference of a circle multiply diameter by 3.1416. To find diameter of a circle divide circumference by 3.1416. To find area of a circle multiply square of diameter by .7854. To find area of triangle multiply base by $\frac{1}{2}$ perpendicular height. To find surface of a ball multiply square of diameter by 3.1416. To find solidity of a sphere multiply cube of diameter by .5236. To find side of an equal square multiply diameter by .8862. To find cubic inches in a ball multiply cube of diameter by .5236.

To find side of an equal square multiply diameter by .8862. To find cubic inches in a ball multiply cube of diameter by 5236.

Doubling the diameter of a pipe increases its capacity four times

A gallon of water (U. S. standard) weighs $8\frac{1}{3}$ lbs. and contains 231 cubic inches.

A cubic foot of water contains $7\frac{1}{2}$ gallons, 1728 cubic inches, and weighs $62\frac{1}{2}$ lbs.

To find the pressure in pounds per square inch of a column of water multiply the height of the column in feet by .434.

Steam rising from water at its boiling point (212 degrees) has a pressure equal to the atmosphere (14.7 lbs. to the sq. in.)

A standard horse power: The evaporation of 30 lbs. of water per hour from a feed water temperature of 100 degrees F. into steam at 70 lbs. gauge pressure.

To find capacity of tanks any size, give dimensions of a cylinder in inches. To find its capacity in U. S. gallons, square the diameter, multiply by the length and by .0034.

To ascertain heating surface in tubular boilers multiply $\frac{3}{4}$ the circumference of boiler by length of boiler in inches and add to it the area of all the tubes.

One sixth of tensile strength of plate multiplied by thickness of plate and divided by one-half the diameter of boiler gives safe working pressure for tubular boilers. For marine boilers add 20 per cent for drilled holes.

WHAT CONSTITUTES A SQUARE OF ROOFING AND SIDING

Corrugated Sheets.

$2\frac{1}{2}$ or $1\frac{1}{4}$ -inch corrugations. One square of Corrugated Iron consists of 100 square feet of material, estimated on full width and length of sheets after being corrugated.

V-CRIMP ROOFING

One square consists of $6\frac{1}{4}$ sheets (covering width, 24 inches), 8 ft. long, or their equivalent. When sticks are ordered we give 50 running feet with one square.

PRESSED STANDING-SEAM ROOFING.

One square consists of $6\frac{1}{4}$ sheets (covering width, 24 inches), 8 feet long, or their equivalent and one pound of metal cleats.

SELF-CAPPING ROLL ROOFING

One square consists of 5 sheets 10 feet long, or their equivalent making a roll 50 feet long by 26 inches wide, and one pound of metal cleats.

ROLL AND CAP ROOFING

One square consists of 5 sheets, 10 feet long, or their equivalent, making a roll 50 feet long by 26 inches wide, 50 feet of metal caps, and one pound of metal cleats.

STEEL BRICK SIDING AND ROCK FACE SIDING.

One square consists of 8 4-7 sheets, 28 inches wide by 60 inches long.

ESTIMATED WEIGHTS OF BLACK SHEETS

U. S. Standard Gauge. Weight per Sheet in lbs.

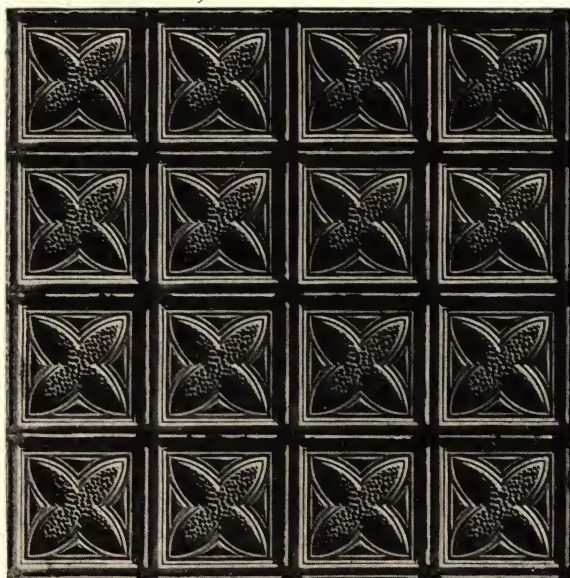
U. S. GAUGE	10	12	14	15	16	18	20	22	24	26	27	28	29	30
Lbs. per Sq. Foot	5.625	4.375	3.125	2.8125	2.50	2.00	1.50	1.25	1.00	.75	.6875	.625	.5625	.50
Thickness (inches)	9-64	7-64	5-64	9-128	1-16	1-20	3-80	1-32	1-40	3-160	11-640	1-64	9-640	1-80
24 x 96	90.00	70.00	50.00	45.00	40.00	32.00	24.00	20.00	16.00	12.00	11.00	10.00	9.00	8.00
101	94.69	73.65	52.60	47.34	42.08	33.67	25.25	21.04	16.84	12.63	11.57	10.52	9.47	8.42
120	112.50	87.50	62.50	56.25	50.00	40.00	30.00	25.00	20.00	15.00	30.75	12.50	11.25	10.00
26 x 96	97.50	75.83	54.17	48.75	43.33	34.67	26.00	21.67	17.34	13.00	11.92	10.83	9.75	8.67
120	121.88	94.79	67.71	60.94	54.17	43.33	32.50	27.08	21.67	16.25	14.90	13.54	12.19	10.83
28 x 96	105.00	81.67	58.33	52.50	46.67	37.33	28.00	23.33	18.67	14.00	12.83	11.67	10.50	9.33
101	110.47	85.92	61.37	55.23	49.09	39.28	29.46	24.55	19.64	14.73	13.50	12.27	11.05	9.82
120	131.25	102.08	72.92	65.63	58.33	46.67	35.00	29.17	23.33	17.50	16.04	14.58	13.13	11.67
30 x 96	112.50	87.50	62.50	56.25	50.00	40.00	30.00	25.00	20.00	15.00	13.75	12.50	11.25	.....
120	140.63	109.38	78.13	70.31	62.50	50.00	37.50	31.25	25.00	18.75	17.19	15.63	.....	.....
36 x 96	135.00	105.00	75.00	67.50	60.00	48.00	36.00	30.00	24.00	18.00	16.50	15.00	.....	.....
120	168.75	131.25	93.75	84.38	75.00	60.00	45.00	37.50	30.00	22.50	20.63	18.75	.....	.....
144	202.50	157.50	112.50	101.25	90.00	72.00	54.00	45.00	36.00	27.00	24.75	22.50	.....	.....
48 x 96	180.00	140.00	100.00	90.00	80.00	64.00	48.00	40.00	32.00	24.00	22.00	20.00	.....	.....
120	225.00	175.00	125.00	112.50	100.00	80.00	60.00	50.00	40.00	30.00	27.50	25.00	.....	.....

NOTE

Above estimated weights are based on U. S. standard gauge for iron. For Steel, add 2 per cent. These figures are given for convenience in estimating only, and may vary somewhat in actual practice. The sizes below the heavy black line will probably considerably exceed the weights given, and it is safe, therefore, to allow for an overweight of at least 10 per cent.

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